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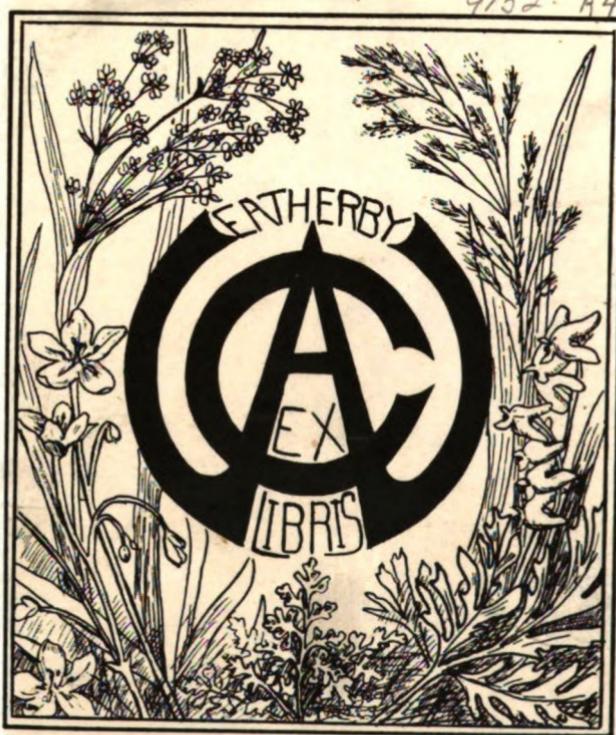


*Flora Americae Septentrionalis, or, A
systematic arrangement and ...*

Frederick Pursh

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Flora Americæ Septentrionalis;
OR, A
SYSTEMATIC ARRANGEMENT
AND
DESCRIPTION
OF
THE PLANTS
OF
NORTH AMERICA.

CONTAINING, BESIDES WHAT HAVE BEEN DESCRIBED BY
PRECEDING AUTHORS, MANY NEW AND RARE
SPECIES, COLLECTED DURING TWELVE
YEARS TRAVELS AND RESIDENCE
IN THAT COUNTRY,

BY
FREDERICK PURSH.

IN TWO VOLUMES.

WITH TWENTY-FOUR ENGRAVINGS.

VOL. II.

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XII. POLYANDRIA.

I. MONOGYNIA.

423. BEJARIA. *Cal. 7-fidus. Pet. 7. Stam. 14. Caps. 7-locularis, polysperma.*
424. TILIA. *Cal. 5-partitus, decidens. Pet. 5. Stigma sub-5-lobum. Caps. immatura 5-locularis, 5-valvis, 5-sperma: matura submonosperma, basi dehiscens.*
425. HELIANTHEMUM. *Cal. lacinias 5. saepius inaequalibus: 2. extimus minoribus. Pet. 5. Caps. 1-locularis, 3-valvis; valvis medio septiferis.*
426. HUDSONIA. *Cal. 3-partitus, tubulosus. Pet. 5. Stam. 10—15. Caps. 1-locularis, 3-valvis, 3-sperma.*
427. TALINUM. *Cal. 5-phyllo. Pet. 5. Caps. 1-locularis, 3-valvis, polysperma.*
428. PORTULACCA. *Cal. 2-fidus. Pet. 5. Caps. 1-locularis, circumscissa.*
429. CHELIDONIUM. *Cal. 2-phyllo, deciduus. Pet. 4. Caps. 1-locularis, linearis. Sem. plurima, cristata.*
430. GLAUCIUM. *Cal. 2-phyllo, deciduus. Pet. 4. Siliqua 2-locularis, linearis. Sem. plurima, punctata.*
431. PAPAVER. *Cal. 2-phyllo, deciduus. Pet. 4. Caps. 1-locularis, sub stigmate persistente poris dehiscens.*
432. SANGUINARIA. *Cal. 2-phyllo. Pet. 8. Caps. ovata, 1-locularis.*
433. ARGEMONE. *Cal. 3-phyllo, deciduus. Pet. 6. Caps. semivalvis.*
434. PODOPHYLLUM. *Cal. 3-phyllo. Pet. 9. Bacc 1-locularis, coronata stigmate.*
435. ACTAEA. *Cal. 4-phyllo, deciduus. Pet. 4. Bacc 1-locularis. Sem. semiobtusata.*
436. SARRACENIA. *Cal. duplex, 3-phyllo et 5-phyllo. Pet. 5. Caps. 5-locularis. Stylus stigmate clypeatus.*

437. LEWISIA. *Cal.* 7—9-phylloides, scariosus. *Pet.* 14—18. *Stylus* 3-fidus. *Caps.* 3-locularis, polysperma. *Semina* nitida.
438. NYMPHÆA. *Cal.* 4—5-phylloides. *Pet.* plurima, germini sub staminibus inserta. *Stigma* radiatum, sessile, medio nectariferum. *Bacca* multilocularis, polysperma.
439. NUPHAR. *Cal.* 5—6-phylloides. *Pet.* plurima, receptaculo cum staminibus inserta, dorso nectarifera. *Stigma* radiato-sulcatum, sessile. *Bacca* multilocularis, polysperma.
440. CERATOPHYLLUM. *Cal.* multipartitus : femineus 6-phylloides, imbricatus. *Cor.* O. *Anth.* tricuspidatæ. *Nux* 1-sperma. *Monoicum.*

II. DI-PENTAGYNIA.

441. CALLIGONUM. *Cal.* 5-partitus. *Cor.* O. *Styli* 4. *Nux* 1-locularis, 4-alata. *Dioicum.*
442. DATISCA. *Cal.* 5-phylloides : femineus 2-dentatus. *Cor.* O. *Anth.* sessiles, oblongæ, 15. *Styli* 3. *Caps.* 3-angularis, 3-cornis, 1-locularis. *Dioica.*
443. MENISPERMUM. *Cal.* O. *Pet.* 4. exteriora ; 8. interiora. *Stam.* 6. 8. 12. 16. *Pist.* 2—3. *Baccæ* 1—2, monospermæ. *Dioicum.*
444. DELPHINIUM. *Cal.* O. *Pet.* 5. *Nectar.* 2-fidum, postice cornutum. *Caps.* 1—3 seu 5.
445. ACONITUM. *Cal.* O. *Pet.* 5. supremo fornicato. *Nectar.* 2. pedunculata, recurva. *Caps.* 3. seu 5.
446. AQUILEGIA. *Cal.* O. *Pet.* 5. *Nectar.* corniculata, inter petala. *Caps.* 5. distinctæ.
447. CIMICIFUGA. *Cal.* 4—5-phylloides. *Pet.* 4—8. cartilaginea. *Cups.* 1—5. seu plures, oblongæ, sutura laterali dehiscentes, polyspermæ.
448. ASCYRUM. *Cal.* 4-phylloides : 2. interioribus majoribus. *Pet.* 4. *Filam.* in 4. phalanges digesta. *Caps.* oblonga, 1-locularis, 2-valvis, calyx inclusa.
449. HYPERICUM. *Cal.* 5-partitus, lacinias subæqualibus. *Pet.* 5. *Filam.* vix basi connata. *Caps.* subrotunda : loculis numero stylorum : 1—2—3—5.
450. ELODEA. *Cal.* 5-partitus, æqualis. *Pet.* 5. unguibus nectariferis. *Filam.* 10—15. in 3. phalanges connata. *Glandulæ* inter phalanges. *Styli* 3. divergentes. *Caps.* 3-locularis.

III. POLYGYNIA.

* *Flores vagi.*

451. ILLICIUM. *Cal.* 6-phillus. *Pet.* 27. *Caps.* plures, in orbem digestæ, 2-valves, 1-spermæ.
452. MAGNOLIA. *Cal.* 3-phillus. *Pet.* 6—9. *Caps.* 2-valves, 1-spermæ, in strobilum imbricatæ. *Sem.* pendula.
453. LIRIODENDRON. *Cal.* 3-phillus. *Pet.* 6. *Samaræ* imbricatæ in strobilum. *Caps.* 1—2-spermæ, non dehiscentes.
454. PORCELIA. *Cal.* 3-phillus. *Pet.* 6. interiora maja. *Stigmata* sessilia, obtusa. *Baccæ* plures aut abortione subsolitariæ, ovoideo-subreniformes, polyspermæ. *Sem.* sutura interna adnexa, arillata.
455. ATRAGENE. *Cal.* 0. *Cor.* 4—6-petala. *Nectaria* 4. spatulata, petalis alternantia. *Filam.* exteriora dilatata subantherifera. *Sem.* aristata, aristis pilosis.
456. CLEMATIS. *Cal.* 0. *Pet.* 4—6. *Sem.* caudata, cauda plumosa.
457. ANEMONE. *Cal.* 0. *Pet.* 6—9. *Sem.* ecaudata.
458. THALICTRUM. *Cal.* 0. *Pet.* 4—5. *Slam.* longissima. *Sem.* ecaudata, striata, teretia.
459. HYDRASTIS. *Cal.* 0. *Pet.* 3. *Bacca* composita, acinis monospermis.
460. BRASENIA. *Cal.* 0. *Pet.* 6. persistentia: 3. interiora longiora. *Caps.* 6—10. oblongæ, dispermæ.
461. CALTHA. *Cal.* 0. *Pet.* 5. decidua. *Caps.* plurimæ, polyspermæ.
462. COPTIS. *Cal.* 0. *Pet.* 5—6. caduca. *Nectar.* 5—6. cucullata. *Caps.* 5—8. stipitatæ, stellatæ, rostratæ, polyspermæ.
463. TROLLIUS. *Cal.* 0. *Pet.* 5—8. decidua. *Nectar.* 5—8. linearia. *Caps.* plurimæ, sessiles, polyspermæ.
464. HEPATICA. *Cal.* 3-phillus. *Pet.* 6—9. *Sem.* nuda.
465. RANUNCULUS. *Cal.* 5-phillus. *Pet.* 5. intra unguis poro mellifero. *Sem.* nuda.
466. SAGITTARIA. *Cal.* 3-phillus. *Pet.* 3. *Caps.* aggregatae, 1-spermæ. *Polygama.*
467. CYAMUS. *Cal.* 4—5-phillus. *Pet.* plurima. *Fructus* turbinatus, in disco truncato foveis plurimis excavatus 1-spermis. *Nuces* ovalæ, stylo persistente coronatae.

** *Flores spathacei. Spadix simplex.*

468. POTHOS. *Spatha cucullata. Spadix floribus tectus.*
Cal. O. Pet. 4. Baccæ 2-spermæ.
469. CALLA. *Spatha planiuscula. Spadix floribus tectus.*
Cal. et Cor. O. Baccæ polyspermæ.
470. ARUM. *Spatha cucullata. Spadix supra nudus,*
inferne feminineus, medio stamineus. Cal. et Cor. O.
Baccæ utplurimum 1-spermæ.
-

I. MONOGYNIA.

423. BEJARIA. *Gen. pl. 811. Vent. hort. cels p. 51.*

racemosa.

1. *B. foliis ovato-lanceolatis glabris, floribus racemoso-paniculatis terminalibus.—Vent. l. c.*
Besaria paniculata. Mich. fl. amer. 1. p. 280.
Icon. Mich. l. c. t. 26. Vent. l. c. t. 51.
2. *B. foliis utrinque acutis, caule hispido.*
3. *B. foliis obovatis obtusiusculis, caule glabro.*
 In sandy woods, on the banks of swamps and ponds :
 Georgia and Florida : particularly plentiful on the
 Island of St. Mary's. $\frac{1}{2}$. June. v. v. A beautiful
 shrub, from three to four feet high ; flowers white,
 tinged with red, of an agreeable scent.

424. TILIA. *Gen. pl. 894.*

glabra.

1. *T. foliis suborbiculato-cordatis abrupte acuminatis argute serratis subcoriaceis glabris, petalis apice truncatis crenatis, stylo petalis subæquali, nuce ovata subcostata.—*
Vent. in mem. de l'instit. sc. phys. 4. p. 9. t. 2.
T. americana. Willd. sp. pl. 2. p. 1162.
T. caroliniana. Wangh. amer. 56.
T. canadensis. Mich. fl. amer. 1. p. 306.
Icon. Vent. l. c. t. 2. Mich. arb. t.
 In the woods of Canada and the northern United States,
 and on the mountains, as far south as Carolina. $\frac{1}{2}$.
 May, June. v. v. This tree is known by the name
 of Lime- or Line-tree; Basswood; Spoonwood; and is
 both useful and ornamental.

2. *T. foliis cordatis sensim acuminateis rarer dentatis membranaceis glabris. paniculis laxifloris, petalis emarginatis, stylo petalis longiore, nuce globosa.* — *Mich. fl. amer. 1. p. 306.*

Icon. Mich. arb. t.

Near the sea-coast: Maryland to Georgia. ♀. May, June. v. v. s. fl. A very distinct species, though generally confounded with the foregoing one.

3. *T. foliis basi truncatis obliquis acuminatis denticulato-serratis subtus pubescentibus, paniculis confertifloris, petalis emarginatis, stylo petalis subæquali, nuce globosa lœvi.* — *Vent. in mem. de l'insti. sc. phys. 4. p. 10. t. 3. Willd. sp. pl. 2. p. 1162.*

T. caroliniana. Mill. dict. no. 4.

T. americana. Walt. fl. car. 153. Wangh. amer. 55.

- β. *T. foliis laxe serratis tenuissimis subpapyraceis. Vent. leptophylla. l. c. p. 11.*

In close copses and on the banks of rivers: Virginia to Georgia. ♀. May—July. v. v. The variety β. can scarcely be considered a distinct species, unless the flowers and fruit should prove it so, both of which I have not seen.

4. *T. foliis ovatis basi oblique aut æquilatero truncatis cor-datisque argute serratis subtus niveo-tomentosis, nuce globosa subcostata.* — *Vent. l. c. p. 16 t. 5.*

- On the banks of the Ohio and Mississippi. ♀. June. v. s. A very handsome and desirable ornamental tree.

425. HELIANTHEMUM. Juss. gen. pl. 326.

Cisti spec. Gen. pl. 913.

1. *H. exstipulatum, erectum; foliis alternis erectis linearilanceolatis planis subtus tomentosis, racemis terminalibus paucifloris, calycis laciniis lato-ovatis acuminatis, capsulis calyce brevioribus.* — *Willd. sp. pl. 2. p. 1199. sub Cisto.*

In dry fields and pine woods: Canada to Carolina. ♀. June. v. v. Flowers, as in all the following species, yellow.

2. *H. exstipulatum, erectum, pulverulento-tomentosum; ramuliflorum. foliis alternis oblongis acutis margine revolutis subtus tomentosis, racemis brevissimis, summitate subtrifloris, calycis laciniis orbiculatis pulverulentis, capsulis globosis longitudine calycis.* — *Mich. fl. amer. 1. p. 307.*

laxiflora.

pubescens.

canadense.

Menandra ramis alternis. Clayt. fl. virg. 20.

In sandy fields: New Jersey to Carolina. ♀. July.
v. v. Flowers small.

corymbosum. 3. *H. exstipulatum, erectum, ramosum, minutum pubescens; foliis alternis lanceolatis subtus cano-tomentosis, corymbis fastigiatis confertim multifloris, calycis lacinii ovatis acutis, capsulis calyce vix longioribus.* — *Mich. fl. amer. 1. p. 307.*

In dry barren sand-fields, particularly along the sea-coast: New Jersey to Georgia. ♀. June—Aug. v. v. Flowers very small, sometimes without petals; from which circumstance this and the foregoing species have been mistaken for *Lechea major*.

rosmarinifolium. 4. *H. exstipulatum, stricte-erectum, simplex, canescens; foliis linearibus margine revolutis subtus cano-tomentosis, racemulis axillaribus interrupte confertifloris, calycis lacinii ovatis acutis, petalis calyce triplo longioribus.*

In pine-barrens: Georgia. *Enslen.* ♀. July. v. s. in *Herb. Enslen.* Flowers bright yellow.

carolinianum. 5. *H. exstipulatum, hirsutum, erectum; foliis alternis oblongo-ovalibus subdenticulatis, imis obovalibus utrinque hirsutis, pedunculis terminalibus paucis calycibusque villosissimis, calycis lacinii oblongis acutis petalis brevioribus.* — *Mich. fl. amer. 1. p. 307..*

Cistus carolinianus. Walt. fl. car. 152.

Icon. *Vent. cels 74.*

In pine-barrens of Carolina and Georgia. ♀. June—Aug. v. v. Flowers and leaves larger than in any other species.

426. HUDSONIA. *Gen. pl. 822. Willd. hort. berol. 15.*

ericoides.

1. *Hudsonia. Willd. sp. pl. 2. p. 858.*

Icon. *Willd. hort. berol. 15. Berg. act. holm. 1778. t. 2.*
In pine-barrens of New Jersey and Virginia. ♂. May, June. v. v. Flowers yellow. This delicate little shrub, not above six inches high, covers large tracts of sandy pine-woods in a similar manner as common heath.

427. TALINUM. *Juss. gen. pl.* 346.

1. *T. foliis cylindricis carnosis, corymbis terminalibus pedunculatis.* — *teretifolium.*

On sunny rocks: Delaware and Virginia. $\frac{1}{4}$. July.
v. v. Flowers purple.

428. PORTULACCA. *Gen. pl.* 824.

1. *P. foliis cuneiformibus, floribus sessilibus.* — *Willd. sp.* *oleracea.*
pl. 2. p. 859.

Icon. *Schkuhr handb.* 130.

Purslane is a common weed in gardens.

429. CHELIDONIUM. *Gen. pl.* 880.

1. *C. foliis alternis pinnatis lobatis, umbellis axillaribus pendunculatis.* — *Willd. sp. pl. 2. p. 1141.* *majus.*

Icon. *Fl. dan.* 542. *Engl. bot.* 1581.

Near old buildings and among rocks: New England and Pennsylvania; probably introduced. $\frac{1}{4}$. May, June. *v. v.* The yellow fluid which it affords by breaking the stems, is considered an infallible remedy in curing warts and corns.

2. *C. caulibus in summitate geminatim diphyllis, foliis sessilibus lobato-pinnatifidis, pedunculo solitario unifloro, capsula oblongo-ovata.* — *Mich. fl. amer.* 1. p. 309. *diphyllum.*

In shady woods, near rivulets: Kentucky and Tennessee. *Michaux.* $\frac{1}{4}$. May. *v. s.* Resembles *Sanguinaria* very much, and seems to be the connecting link to both genera.

430. GLAUCIUM. *Juss. gen. pl.* 261.

1. *G. caule glabro, foliis caulinis amplexicaulibus repandis, pedunculis unifloris, siliqua tuberculato-scabriuscula.* — *Smith fl. brit.* 2. p. 563. *luteum.*

Chelidonium Glaucium. — *Willd. sp. pl.* 2. p. 1142.

Icon. *Fl. dan.* 585. *Engl. bot.* 8.

On the sea-coast of Virginia and Carolina. \odot . June, July. *v. v.* Flowers large, yellow.

431. PAPAVER. *Gen. pl.* 881.

1. *P. capsulis hispidis, scapo unifloro nudo hispido, foliis subpinnatis, foliolis lanceolatis; inferioribus subinoisis.* — *Willd. sp. pl.* 2. p. 1145. *nudicaule,*

POLYANDRIA MONOGYNIA. Papaver.

Icon. *Fl. dan.* 41. *Dill. elth. t.* 224. *f.* 291.
In Labrador. *Colmaster.* ♂. *v. s. in Herb. Dickson.*
Flowers yellow.

432. SANGUINARIA. Gen. pl. 878.

canadensis. 1. S. folio subreniformi sinuato-lobato, scapo unifloro.—
Willd. sp. pl. 2. p. 1140.

Icon. *Bot. mag.* 162. *Dill. elth. t.* 252.
stenopetala. β. S. petalis linearibus.

In dry woods, generally in fertile soil : Canada to Florida. ♀. March, April. v. v. Flowers white ; the number of petals is variable ; and with little care and attention a fine double variety might be produced. It is known by the name of *Blood-wort*.

433. ARGEMONE. Gen. pl. 882.

mexicana. 1. A. capsulis 5-valvibus, foliis pinnatifidis incisis spinosis, floribus axillaribus.—*Willd. sp. pl. 2. p.* 1148.

Icon. *Bot. mag.* 243.
On banks of rivers : Carolina to Florida. ♂. July, Aug. v. v. Flowers yellow, large. In Georgia is a variety with white flowers, which has a beautiful appearance.

434. PODOPHYLLUM. Gen. pl. 879.

peltatum. 1. P. caule unifolio unifloro, folio peltato palmato : lobis cuneatis incisis.—*Willd. sp. pl. 2. p.* 1141.

Icon. *Trew ehret. t.* 29. *Catesb car. 1. t* 24.
In shady woods, in large patches, generally on moist ground : New England to Carolina. ♀. March, April. v. v. Flower white ; the fruit is the size of a common plum, green, eatable, and known by the name of *May-apple* : the root is sometimes used as Ipecacuanha.

435. ACTAEA. Gen. pl. 877.

americana. 1. A. foliis decompositis : foliolis oblongis sensim acutis inciso-serratis, racemo ovato, petalis staminibus brevioribus.

A. *spicata* *Mich. fl. amer.* 1. *p.* 308.

A. *rubra*. *Willd. enum.* 560.

alba. α. A. baccis niveis.

Icon. *Corn. canad.* *t.* 77. *Moris. hist.* 2. *s. 1. t. 2. f.* 7.

rubra.

A. baccis rubris.

In shady rocky woods, in rich vegetable mould: Canada to Virginia; principally on the mountains. $\frac{1}{2}$. April, May. v. v. Flowers white; berries white or red; known by the name of *Red and White Cohosh*, and considered by the natives as a valuable medicine. *A. spicata* differs not only in its foliage, but the petals are the length of the stamens.

436. SARRACENIA. *Gen. pl. 885.*

1. *S. foliis brevibus, tubo ventricoso-gibbo, fauce coarctato, ala ventrali arcuatim elatiore, appendice erecta subreniformi-cordata mutica sessili.* *Mich. fl. amer.* 1. p. 310. *Willd. sp. pl.* 2. p. 1150.
Icon. Bot. mag. 849. *Mill. ic.* 241. *Catesb. car.* 2. t. 70. *Pluk. amaln.* t. 376. f. 6.
In cedar swamps and sphagnum marshes: Canada to Carolina. $\frac{1}{2}$. June, July. v. v. Flowers purple, large. This singular and handsome plant is, with all the following, a very desirable object in the collection of the admirers of nature; they bear cultivation, in pots filled half way with sphagnum, extremely well.
2. *S. foliis elongatis, tubo superne dorso maculato, in appendicem fornicate invicinatam brevem desinente, ala ventrali lineari-lanceolata.* *Mich. fl. amer.* 1. p. 310.
S. minor. *Walt. fl. car.* 153.
S. adunca. *Smith exot. bot.* 1. t. 53.
In open swamps, on sandy soil: North Carolina to Florida. $\frac{1}{2}$. June, July. v. v. Flowers yellow. The transparent spots on the back of the leaf distinguish this species very easily from the following, with which it has often been confounded.
3. *S. foliis strictis longissime infundibuliformibus, fauce patula, ala ventrali subinvoluta, appendice erecta basi coarctata ima parte lateribus retroflexis, mucrone subulato.* *Mich. fl. amer.* 1. p. 310. *Willd. sp. pl.* 2. p. 1150.
Icon. Bot. mag. 780. *Bot. rep.* 381. *Catesb. car.* 2. t. 69. *Pluk. amaln.* t. 376. f. 5.
In open swamps: Virginia to Florida. $\frac{1}{2}$. June, July. v. v. Flowers yellow. This is the tallest growing sort; the leaves are often two feet long.

*purpurea.**variolaris.**flava.*

- psittacina.* 4. *S. foliis brevibus superne coloratis venoso-reticulatis, ala ventrali sursum subcuneatim latescente, tubo sensim in appendicem recurvatam rotundatim fornicatam mucronatam desinente.* *Mich. fl. amer.* 1. p. 311.
S. rubra. *Walt. fl. car.* 152.
Icon. *Pluk. amalh.* t. 152. f. 3?
In swamps of Georgia and Florida. *v. June, July.*
v. v. Flowers on very long peduncles, purple; leaves small, very handsomely marked with purple veins.

437. LEWISIA. *Pursh in linn. trans.* v. 11.*rediviva.*

1. *Lewisia. l. c.*
On the banks of Clark's river. *v. July. v. s. in Herb. Lewis.* Petals white; calyx elegantly red-veined, of a consistency like paper.
Radix fusiformis, ramosa, sanguinea. *Folia* radicalia linearia, subcarnosa, obtusiuscula. *Scapus* uniflorus? an biflorus. *Pedicellus* basi geniculatus. *Calyx* copratus, scariosus, 7—9-phyllo, patens: foliolis ovatis, acutis, concavis, nervoso-venosis, interioribus angustioribus. *Petala* 14—18. alba, lanceolata, patentia, calyce vix duplo longiora. *Filamenta* 14—18. receptaculo petalis opposite inserta, filiformia, calyce breviora. *Antheræ* oblongæ, erectæ. *Germen* superum, ovatum, glabrum. *Stylus* filiformis, staminibus paulo longior, superne trifidus. *Stigmata* 3. bifida. *Capsula* oblonga, 3-locularis: loculis bispermis. *Semina* lenticularia, nitida, nigra.

This elegant plant would be a very desirable addition to the ornamental perennials, since, if once introduced, it would be easily kept and propagated, as the following circumstance will clearly prove. The specimen with roots taken out of the Herbarium of M. Lewis, Esq. was planted by Mr. M'Mahon of Philadelphia, and vegetated for more than one year: but some accident happening to it, I had not the pleasure of seeing it in flower.

438. NYMPHÆA. *Gen. pl.* 886.

- odorata.* *Castalia. Salisb. in annals of bot.* 2. p. 71.
1. *N. foliis orbiculato-cordatis integerrimis subemarginatis, lobis divaricatis, acumine obtuso, petalis calyce 4-*

4-phyllo æqualibus, stigmate radiis 16—20. erectis.—
Willd. sp. pl. 2. p. 1153.

N. alba. Mich. fl. amer. 1. p. 311. Walt. fl. car. 155.

Castalia pudica. Salisb. l. c. p. 72.

Icon. Bot. mag. 819. Bot. rep. 297.

3. *N. foliis cordatis integerrimis obtusis, lobis divaricatis acutis, petiolis pedunculis foliisque subtus purpureis, calycibus petalique extus roseis.*

rosea.

Icon. Willd. hort. berol. 39?

In ponds and slow-flowing waters: Canada to Carolina.

♀. July. v. v. Flowers white, fragrant. The variety β . is probably a distinct species, which only further observation can decide. It resembles *N. pygmaea*.

439. NUPHAR. *Smith prodr. fl. græc. 1. p. 361.*

Nymphaea. Gen. pl. 896. Salisb. in annals. of bot. 2. p. 71.

1. *N. foliis cordatis integerrimis, lobis approximatis, calyce 5-phyllo, stigmate repando 14—20-radiato profunde umbilicato.—Ait. kew. ed. 2. v. 3. p. 295.*

lutea.

Nymphaea lutea. Willd. sp. pl. 2. p. 1151.

Nymphaea umbilicalis. Salisb. l. c.

Icon. Engl. bot. 159.

In lakes on the Allegany mountains. ♀. June, July.
 v. v. Flowers yellow, as are all the following species.

2. *N. foliis erectis cordatis integerrimis, lobis divaricatis, calyce 6-phyllo, stigmate leviter umbilicato 13-radiato, pericarpio sulcato.—Ait. kew. ed. 2. v. 3. p. 295.*

advena.

Nymphaea advena. Willd. sp. pl. 2. p. 1152.

Nymphaea arifolia. Salisb. l. c.

Icon. Bot. mag. 684. Willd. hort. berol. 38.

In all ponds and ditches, even in salt water: Canada to Carolina. ♀. July, Aug. v. v. Resembles the foregoing species, but is distinguished at first sight by its upright leaves.

3. *N. foliis cordatis, lobis subapproximatis, calyce 5-phyllo, stigmate inciso 8—12-radiato. Ait. kew. ed. 2. v. 2. p. 295.*

Kalmiana.

Nymphaea lutea β . Kalmiana. Mich. fl. amer. 1. p. 311.

Nymphaea lutea. Walt. fl. car. 154.

Icon. Bot. mag. 1243.

In ponds: Canada to Carolina; rare. ♀. July, Aug.
 v. v. Flowers very small in comparison with others.

sagittifolia. 4. N. foliis elongatis sagittato-cordatis obtusis, calyce 6-phyllo, petalis nullis, antheris subaequalibus.—*Salisb. t. c.*

Nymphaea sagittifolia, *Walt. fl. car.* 155.

Nymphaea longifolia *Mich. fl. amer.* 1. p. 312.

In slow-flowing waters: Carolina and Georgia. 4. July, Aug. v. s. Flowers small.

440. CERATOPHYLLUM. *Gen. pl.* 493. *Willd. act. ac. berol.* 1798. p. 84.

demersum. 1. C. foliis verticillatis octonis dichotomo-bigeminis dorso dentatis spinulosis, floribus axillaribus solitariis sessilibus, fructibus 3-spinosis.—*Willd. sp. pl.* 4. p. 405.

Icon. Engl. bot. 947.

In ditches and stagnant waters, floating: New York to Virginia. 4. July, Aug. v. v. Flowers exceeding small.

II. DIPENTAGYNIA.

441. CALLIGONUM. *Gen. pl.* 834.

canescens. 1. C. dioicum, pulverulento-tomentosum; foliis lanceolatis, floribus axillaribus glomeratis in apice ramulorum subspicatis, fructibus alatis, alis venosis cristato-dentatis.

In the plains of the Missouri, near the Big-bend. 5. July, Aug. v. s. in *Herb. Lewis*. Flowers exceeding small. Goats delight to feed upon this shrub.

442. DATISCA. *Gen. pl.* 1543.

hirsuta. 1. D. caule hirsuto, foliis pinnatis, foliolis basi confluentibus.—*Willd. sp. pl.* 4. p. 823.

In Pennsylvania. *Kalm.* 4. +. Flowers yellow, small, in terminal panicles. I never had an opportunity of seeing this plant myself.

443. MENISPERMUM. *Gen. pl.* 1544.

canadense. 1. M. foliis peltatis cordatis subrotundo-angulatis, racemis compositis.—*Willd. sp. pl.* 4. p. 824.

β. M. foliis lobatis.

M. virginicum. Willd. sp. pl. 4. p. 824. excl. syn. Dill. elth. lobatum.

On the banks of rivers and sides of fertile hills, climbing among other shrubs. $\frac{1}{2}$. July. v. v. Flowers greenish yellow; berries black, resembling grapes. *M. folio hederaceo, Dill. elth. t. 178. f. 219.* belongs to *M. carolinianum* or *Wendlandia*.

2. M. foliis cordatis palmato-lobatis longissime pedicellatis, racemis simplicibus, floribus hexapetalis dodecandris.

In Kentucky and Tennessee. $\frac{1}{2}$. June, July. v. v. s. fl.; v. s. in *Herb. Lyon.* Berries large, black, one-seeded. Stem climbing to the height of twenty feet; leaves large.

Lyoni.

444. DELPHINIUM. *Gen. pl. 924.***1. D. pumilum; caule simplici, foliis palmato-multifidis, lacinias sub lanceolatis obtusiusculis, fasciculo paucifloro, cornu recto corolla breviore, capsulis 3. compressis arcuatis subreflexo-patulis.—*Mich. fl. amer. 1. p. 314.***

tricorne.

On the side of shady and fertile hills, on the banks of rivers: Virginia to Carolina; particularly plentiful about Harper's Ferry on the Potowmac, Virginia. $\frac{1}{2}$. April, May. v. v. Not above eight inches high; flowers beautiful blue.

2. D. caule stricto simplici, foliis linearis-multipartitis, spica floribus breviter pedicellatis, cornu sursum arcuato, petalis villosissimis, capsulis ternis. *Mich. fl. amer. 1. p. 314.*

azureum.

D. carolinianum. Walt. fl. car. 155.
On the borders of woods, in sandy soil: Carolina and Georgia. On the banks of the Missouri and Mississippi. $\frac{1}{2}$. May, June. v. s. Flowers beautiful sky-blue, large. W. Bartram mentions this very handsome species in his Travels.

3. D. caule glabro subramoso, foliis tripartito-palmatis, lacinias lanceolatis sub trifidis, spicis strictis, cornu recto longitudine corollæ, capsulis ternis.—*Willd. sp. pl. 2. p. 1230.*

exaltatum.

D. tridactylum. Mich. fl. amer. 1. p. 314.

D. ureolatum. Jacq. collect. 1. p. 153.

Icon. Mill. ic. t. 250. f. 2. Jacq. ic. rar. 1. t. 101.

POLYANDRIA DI-PENTAGYNIA. *Delphinium.*

In rocky shady places, in the moutains of Virginia and Carolina. $\frac{3}{4}$. July. *v. v.* From two to four feet high.

- Consolida.* 4. *D. pubescens*; caule erecto ramoso, foliis linear-i-multi-partitis, cornu adscendente corollam subæquante, nec-tario monophyllo, capsula solitaria.—*Willd. sp. pl. 2. p. 1226.*

Icon. *Fl. dan. 683.*

In fields and woods: Pennsylvania and Virginia. \odot . June, July. *v. v.* Common *Lark-spur*, probably introduced with the seeds of grain from Europe.

445. ACONITUM. *Gen. pl. 928.*

- uncinatum.* 1. *A. floribus subpentagynis*, foliis 3—5-lobis inciso-denta-tis, corollarum galea longius extensa.—*Willd. sp. pl. 2. p. 1238.*

In swamps and on the side of rivulets, on the high mountains of Virginia and Carolina. $\frac{3}{4}$. June, July. *v. v.* Flowers large, of a fine blue and singular structure. On the foot of the Peaks of Otter and about the Sweet-springs another species occurs, with smaller flowers, and a climbing stem which sometimes attains the height of nine feet; but unfortunately I have no materials at present to give a correct descrip-tion thereof.

446. AQUILEGIA. *Gen. pl. 934.*

- canadensis.* 1. *A. cornibus rectis*, staminibus exertis.—*Willd. sp. pl. 2. p. 1247.*

Icon. *Bot. mag. 246.* *Rob. ic. 296.*

In the crevices of rocks: Canada to Carolina. $\frac{3}{4}$. April, May. *v. v.* Flowers scarlet, mixed with yellow.

447. CIMICIFUGA. *Gen. pl. 993.*

- Serpentaria.* 1. *C. foliis decompositis*, foliolis ovato-oblongis incisis den-tatis: dentibus micronatis divaricatis, racemis virga-tim paniculatis elongatis, floribus submonogynis, cap-sulis ovatis.

Actaea racemosa. *Willd. sp. pl. 2. p. 1139.*

Actaea monogyna. *Walt. fl. car. 151.*

Icon. *Dill. elth. t. 67. f. 78.* *Schkuhr handb. 139.* *Pluk. amalh. t. 383. f. 3.*

- In shady, stony woods : Canada to Florida. 4. July, Aug. v. v. A tall stately plant ; spikes long, white ; generally known under the name of *Black Snake-root*.
2. *C. foliis decompositis, foliolis ovatis incisis dentatis, dentibus acutis, racemis paniculatis nutantibus, floribus 5-gynis, capsulis ovatis uncinatis.* — *Willd. sp. pl. 2. p. 1244.*
- Actaea Cimicifuga. Sp. pl. 722.*
Icon. Lam. illustr. 487. Amoen. acad. 7. t. 6. f. 2.
 On the north-west coast. 4. July, Aug. v. v.
3. *C. foliis decomposito-biernatis, foliolis cordatis lobatis serrato-dentatis, racemis virgatim-paniculatis elongatis, floribus 2—5-gynis, germinibus glabris.*
C. americana. Mich. fl. amer. 1. p. 316.
 In shady woods, on high mountains of Carolina. 4. July. v. v.; v. s. in *Herb. Lambert.* Resembles the foregoing very much in general habit.
4. *C. foliis simplicibus palmatis, floribus dichotome-paniculatis subcorymbosis polygynis, capsulis brevissimis subgloboso-capitatis.* — *Mich. fl. amer. 1. p. 316.*
- Actaea racemosa. Herb. Walt.*
 In the beds of mountain rivulets in Virginia and Carolina. 4. July, Aug. v. v. A very tall and handsome plant ; the leaves very large, and the flowers in great abundance.

448. ASCYRUM. *Gen. pl. 1225.*

1. *A. pusillum, simplex ; foliis ovalibus obtusis, pedicellis longis reflexis, floribus 1—2-gynis.* — *Mich. fl. amer. 2. p. 77.*
- A. nummularifolium. Herb. Banks. mss.*
 In pine-barrens of Georgia. 4. June—Aug. v. s.
 Not above three inches high ; flowers small, yellow, as are all the following species.
2. *A. multicaule, diffusum ; foliis sublanceolato-oblongis obtusis, corymbo terminali, floribus subsessilibus 2-gynis, caule subtereti.* — *Willd. sp. pl. 3. p. 1472.*
- A. multicaule. Mich. fl. amer. 2. p. 77.*
 In sandy fields and woods : New Jersey to Carolina. 4. July. v. v. Not above a foot high ; flowers pale yellow ; petals narrow.
3. *A. erectum, ramosum ; ramis ancipitibus, foliis oblongo-* *hypericoides,*

*pumilum.**Crux Andree.*

POLYANDRIA DI-PENTAGYMINA. Ascyrum.

gis basi biglandulosis, floribus terminalibus solitariis breviter pedicellatis 3-gynis.—*Willd. sp. pl. 3. p. 1473.*

A. stans. Mich. fl. amer. 2. p. 77.

In low overflowed open places, generally in sandy soil : New Jersey to Carolina. ♀. July, Aug. v. v. Flowers larger than the former species : it is from one to two feet high.

amplexicaule. 4. *A. erectum* ; caule superne dichotome-paniculato, ramis acutipibus, foliis ovato-oblongis amplexicaulibus, foliolis calycinis exterioribus cordatis, floribus 3-4-gynis.—*Mich. fl. amer. 2. p. 77.*

A. stans. Willd. sp. pl. 3. p. 1475.

Hypericum tetrapetalum. Lam. encycl. 4. p. 153.

In low grounds and woods : Virginia to Florida. ♀. July, Aug. v. v. The flowers and leaves larger than any other sort.

449. HYPERICUM. Gen. pl. 1224.

* Pentagyna.

Kalmianum. 1. *H. fruticosum, ramosissimum*; ramulis 4-gonis, foliis linear-lanceolatis, corymbis terminalibus 3—7-floris, laciinis calycis lanceolatis obtusiusculis, capsulis longitudinali calycis.—*Willd. sp. pl. 3. p. 1438.*

H. Bartramianum. Mill. dict. n. 10.

In Pennsylvania and Virginia. ♀. June, July. v. s. in *Herb. Lambert.* v. v. in *Hortis.* From three to five feet high : the flowers of the whole genus are yellow.

pyramidal-tum. 2. *H. herbaceum, erectum*; caule subtetragono ramoso, foliis sessilibus oblongis acutis glabris, floribus terminalibus, stylis staminibus brevioribus, calycinis foliolis ovatis acutis.—*Willd. sp. pl. 3. p. 1444.*

H. amplexicaule. Lam. encycl. 4. p. 147.

Icon. Vent. malm. 118.

In Cartada ? ♀. July, Aug. v. v. in *Hortis.* Flowers the size of *H. Ascyrum.*

ascyroides. 3. *H. herbaceum, glabrum*; caule simplici 4-gono, foliis sessilibus oblongis acutis glabris, floribus terminalibus, stylis longitudine staminum, calycinis foliolis ovato-lanceolatis.—*Willd. sp. pl. 3. p. 1443.*

H. macrocarpum. Mich. fl. amer. 2. p. 82.

In Canada and the western parts of New York and Pennsylvania. ♀. July, Aug. v. v. Flowers the largest of all the species here enumerated.

** *Trigynæ. Fruticosæ.*

4. *H. ramis ancipitibus, foliis ovali-oblongis obtusis mucronatis basi angustatis, floribus terminalibus subsolitariis, calycinis foliolis oblongis acutis staminibusque petalis æquantibus, stylis coadunatis longitudine staminum.* *Mich. fl. amer. 2. p. 81.*
H. elatum. Ait. kew. 3. p. 104?
 In shady rocky places in Kentucky and Tennessee. ♂.
 July, Aug. v. v. Resembles *H. Ascyrum* very much; the leaves of the calyx are broad, and sometimes longer than the petals.
5. *H. ramis ancipitibus, foliis ellipticis margine crispato-revolutis supra opacis subtus glaucis, floribus terminalibus subsolitariis sessilibus, calycinis foliolis ovatis acuminate, petalis deflexis staminibus longioribus, stylis coadunatis longitudine staminum.* *ameenum.*
 In South Carolina and Georgia. Lyon. ♂. July. Aug.
 v. v. This elegant species grows to the height of about two feet or more. Every branchlet has from one to three large flowers, of a bright golden yellow; the petals turn downwards, and leave the large crown of stamens in an upright situation, which, with the beautiful red ovate germen in the centre, gives the flower a particularly pleasing appearance.
6. *H. ramis ancipitibus, foliis lanceolato-linearibus obtusiusculis, corymbis axillaribus et terminalibus paucifloris, floribus primordialibus sessilibus staminibus stylisque longitudine petalorum, calycinis foliolis lanceolatis.* —*Willd. sp. pl. 3. p. 1453.* *prolificum.*
H. Kalmianum. Du Roi harbk. 1. p. 310.
 In Virginia. Gronov. ♂. June—Aug. v. v. in Hortis.
 The most common and most hardy species in the gardens. I rather suspect its native country to be Canada, as most of the shrubby kinds coming from the southern parts are extremely tender.
7. *H. ramis alato-4-gonis, foliis oblongo-lanceolatis obtusiusculis sessilibus, panicula pedunculata dichotoma inoduscula, floribus solitariis subsessilibus, calycinis lacinis lanceolatis petalis duplo brevioribus, stylis coadunatis staminibus longioribus.* —*Mich. fl. amer. 2. p. 78.* *nudiflorum.*
H. laevigatum. Ait. kew. 3. p. 106?
H. ligustrinum. Herb. Banks. Miss.

In Carolina. *Michaux.* h. July, Aug. v. v. Flowers small. Willdenow in the Species Plantarum considers this to be an herbaceous plant, whereas it certainly is a shrub.

- glaucum.* 8. *H. ramis teretibus, foliis oblongis cordatis amplexicaulis obtusiusculis levigatis glaucis coriaceis, panicula divaricato-dichotoma foliosa, calycinis foliolis ovatis acutis petalis longioribus, staminibus petalis subæquatibus, stylis coadunatis.* — *Mich. Fl. amer. 2. p. 78.*
- H. myrtifolium.* *Lam. encycl. 4. p. 180.*
In Florida. *Michaux.* h. July, Aug. v. v. Flowers large.
- densiflorum.* 9. *H. ramosissimum; ramulis subteretibus, foliis linearilanceolatis obtusiusculis basi attenuatis, paniculis terminalibus composite-dichotomis subfoliosis densifloris, floribus solitariis pedicellatis, calycinis laciniis brevisimis ovatis deciduis, staminibus stylisque coadunatis petalis brevioribus.*
- H. rosmarinifolium.* *Lam. encycl. 4. p. 159?*
On the dry ridges and savannahs of the Virginia mountains. h. June, July. v. v. About two feet high; flowers middle-sized, in very abundant and close panicles.
- galoides.* 10. *H. ramulis tetragonis, foliis linearibus sessilibus margine revolutis, axillis fasciculato-foliolosis, paniculis terminalibus divaricato-dichotomis, petalis staminibus æquantibus calyce lineari vix longioribus, stylis coadunatis subexertis.* — *Lam. encycl. 4. p. 161.*
- In sandy moist places, near rivulets: New Jersey to Carolina. h. July—Sept. v. v. About two feet high; flowers the size of No. 9.
- aspalathoides.* 11. *H. ramis subteretibus dichotomis, foliis fasciculatis linearibus acutis striatis, floribus solitariis axillaribus subsessilibus, staminibus petalis brevioribus, stylis coadunatis.* — *Willd. sp. pl. 3. p. 1451.*
- H. fasciculatum.* *Lam. encycl. 4. p. 160.*
In Carolina. *Fraser.* h. +. Flowers of middle size.
- fasciculatum.* 12. *H. ramulis teretibus, foliis quasi verticillatim-fasciculatis linearilanceolatis acutis basi attenuatis petiolatis margine revolutis, pedunculis in apice ramorum axillaribus trifloris, flore medio sessili, calycibus foliiformibus, stylis coadunatis.* — *Willd. sp. pl. 3. p. 1452, excl. syn. Michaux.*

H. axillare. Lam. encycl. 4. p. 161.

H. Coris. Walt. fl. car. 190.

In pine woods of Georgia and Florida. $\frac{1}{2}$. July. v. v.

Flowers the size of *H. perforatum*.

13. *H. ramulis angulosis, foliis confertis quasi verticillatim fasciculatis filiformi-linearibus convexis obtusis sessilibus, pedunculis in apice ramulorum axillaribus 1—3-floris, calycibus foliiformibus, stylis coadunatis.* *tenuifolium.*

H. fasciculatum. Mich. fl. amer. 1. p. 80.

In Georgia. Enslen. v. s. in Herb. Enslen. Resembles the foregoing species in many respects.

*** *Trigynæ. Herbaceæ.*

14. *H. erectum, ramosum; caule ancipiti, foliis oblongis obtusis pellucido-punctatis, panicula terminali brachiato-foliosa, petalis calyce acuto lanceolato duplo longioribus.* —Willd. sp. pl. 3. p. 1460. *perforatum.*

H. virginicum. Walt. fl. car. 189.

Icon. Fl. dan. 1043. Engl. bot. 295.

In old fields, meadows, and on dry hills; common. $\frac{1}{2}$.

June—Aug. v. v. Common *St. John's Wort* has probably been introduced from Europe, but become one of the most pernicious weeds, and is considered very injurious to horses; for, when they feed upon it, blindness and other diseases are said to be the consequence.

15. *H. erectum, glabrum, nigro-punctatum; caule tereti ramoso, foliis amplexicaulibus oblongo-ovalibus obtusis, corymbis terminalibus brachiatis densifloris, calycinis laciniis lanceolatis acutis.* —Willd. sp. pl. 3. p. 1457. *corymbosum.*

H. maculatum. Walt. fl. car. 189.

H. punctatum. Lam. encycl. 4. p. 164.

In shady woods: New England to Carolina; particularly in the range of the mountains. $\frac{1}{2}$. June—Aug. v. v. Flowers pale yellow, smaller than the foregoing one.

16. *H. erectum, ramosissimum, glabrum; caule subtetragono, foliis ovato-oblongis subcordatis obtusis nervosis sessilibus, paniculis terminalibus dichotomo-corymbosis, petalis calyce lanceolato brevioribus.* —Willd. sp. pl. 3. p. 1456. *parviflorum.*

H. quinquenervium. Walt. fl. car. 190.

H. mutilum. Willd. sp. pl. 3. p. 1471.

In overflowed places: Canada to Carolina. $\frac{1}{2}$. June—Sept. v. v. Flowers small; size very variable.

- triplinervia.* 17. *H. erectum, subramosum*; caule subancipi, foliis linearibus patentissimis triplinerviis, floribus racemoso-paniculatis, corolla inaequali, calycibus acutis petalisque serrato-glandulosis.—*Vent. hort. cels* 58.
On the banks of the Ohio. *Michaux.* ¼. July, Aug. +. Flowers the size of *H. perforatum*, pale yellow.
- dolabriiforme.* 18. *H. erectum, ramosum*; caule ancipi, foliis lanceolatis patentibus obtusis, corymbo terminali dichotomo, calycibus inaequalibus lanceolatis, petalis dolabriiformibus.—*Vent. hort. cels* 45.
On dry hills of Kentucky. *Michaux.* ¼. June, July. +. Flowers golden yellow.
- angulosum.* 19. *H. erectum*; caule tetragono, foliis oblongis acutis arcte sessilibus, panicula terminali dichotoma, ramis divaricatis distanter alternifloris, calycibus subcampanulatis, lacinias lanceolatis acutis inferne carinatis longitudo fere corollæ, petalis dente unico laterali.—*Willd. sp. pl. 3. p. 1454?* *Mich. fl. amer. 2. p. 78.*
H. denticulatum. *Walt. fl. car.* 190.
In bogs and cedar-swamps: New Jersey and Carolina. ¼. June, July. v. v. About a foot high; flowers of a beautiful copper colour, of considerable size.
- sphaerocarpum.* 20. *H. erectum, glaberrimum*; foliis oblongis, panicula nuda dichotoma, dichotomis omnibus unifloris, stylis coadunatis, capsula globosa.—*Mich. fl. amer. 2. p. 78.*
In Kentucky. *Michaux.* ¼. +.
- canadense.* 21. *H. erectum, pusillum, parviflorum*; caule tetragono superne dichotomo, foliis sessilibus linearibus basi attenuatis, panicula ramis primariis oppositis, secundariis dichotomis, capsulis longis conoideis coloratis.—*Willd. sp. pl. 3. p. 1455.*
In low gravelly soil; Canada to Carolina. ①. June—Aug. v. v. Flowers very small; capsules red.
- Sarothra.* 22. *H. pusillum, erectum, setaceo-ramosissimum*; quasi aphyllum; foliis minutis appressis, floribus in ramulis solitarie alternis 5—10-andris, capsulis oblongis 1-loicularibus.—*Mich. fl. amer. 2. p. 79.*
H. nudicaule. *Walt. fl. car.* 190.
Sarothra gentianoides. *Willd. sp. pl. 1. p. 1515.*
Icon. Pluk. mant. t. 342. f. 2.
In dry sunny situations: New England to Carolina. ①. June—Aug. v. v. A singular little species; flowers very small; the number of stamens is very variable, according to soil and situation.

simplex.

23. *H. erectum*, simplicissimum, lanulosum; caule tereti, foliis oblongis adpressis, floribus paucis terminalibus.—*Mich. fl. amer.* 2. p. 80.

H. pilosum. *Walt. fl. car.* 190.*H. ferrugineum*. *Herb. Banks. mss.**Ascyrum villosum*. *Willd. sp. pl.* 3. p. 1474.*Icon. Pluk. alm.* t. 245. f. 6.

In Lower Carolina and Georgia. ☽. July, Aug. v. s.

24. *H. procumbens*, glaberrimum; ramis ancipitibus summitate paucifloris, foliis linearibus enerviis patulis, calycinis foliolis oblongo-lanceolatis acutis, staminibus corolla brevioribus, stylis coadunatis.—*Mich. fl. amer.* 2. p. 81. *Willd. sp. pl.* 3. p. 1450?

On dry sunny hills of Kentucky. *Michaux.* +. The calyx is as large as the corolla.450. ELODEA. *Adanson.**Hyperici sp.* *Linn.*

1. *E. foliis sessilibus amplexicaulibus cordato-oblongis obtusissimis, fasciculis pedunculatis paucifloris axillaris et terminalibus, corollis subcampanulatis, staminibus 9—12. levissime basi coalitis.*

Hypericum virginicum. *Willd. sp. pl.* 3. p. 1455.*Hypericum campanulatum*. *Walt. fl. car.* 191.*Icon. Bot. rep.* 552.

- β. E. foliis cordato-ovatis emarginatis, pedunculis axillariibus elongatis.*

Hypericum emarginatum. *Lam. encycl.* 4. p. 154.

In bogs and wet meadows: Canada to Carolina. ♀.

July—Sept. v. v. β. v. s. in *Herb. Lambert.* Flowers yellowish-red, very handsome.

2. *E. foliis sessilibus, corollis tubulosis, staminibus plusquam ad medium connatis.*

Hypericum tubulosum. *Walt. fl. car.* 191.In Carolina. *Walter.* +. I observed in the vicinity of the Dismal-swamp in North Carolina, a species belonging to this genus, of which I have no specimen in my Herbarium, and which probably may be the species alluded to by Walter. The leaves are elliptic and acute; the flowers nearly sessile in the axils of the leaves, solitary or by two or three; the petals are long and acute, pale red; capsules long, prismatic.

3. *E. foliis petiolatis oblongo-ovalibus rotundato-obtusis,*

petiolata.

floribus oppositis axillaribus subsessilibus subtenuis,
staminibus ad medium usque connatis, capsulis ob-
longis.

Hypericum petiolatum. *Walt. fl. car.* 191.

Hypericum axillare. *Mich. fl. amer.* 2. p. 81.

On banks of lakes and rotten wood: Virginia and Caro-
lina. $\frac{1}{2}$. July, Aug. v. v.

III. POLYGYNIA.

451. ILLICIUM. *Gen. pl.* 940.

floridanum. 1. *I. foliis acuminatis, petalis numerosis oblongis linearibusque*.—*Willd. sp. pl.* 2. p. 1254.

Icon. Bot. mag. 439.

On the banks of the Mississippi, in West Florida. $\frac{1}{2}$.
May, June. v. v. Flowers dark purple, large; leaves
of a very aromatic anise-scent, when bruised.

parviflorum. 2. *I. foliis obtusis, petalis sex calyceque rotundatis concavis*.
—*Mich. fl. amer.* 1. p. 326.

I. anisatum. *Bartr. trav.* 24.

Icon. Vent. hort. cels 22.

In East Florida, on the banks of the river St. John.
Michaux. $\frac{1}{2}$. May, June. v. v. in *Hortis*. Flowers
small, yellow.

452. MAGNOLIA. *Gen. pl.* 942.

grandiflora. 1. *M. foliis perennantibus ovalibus crassis coriaceis, petalis dilatato-ovobatis abrupte in unguem angustatis*.—*Willd. sp. pl.* 2. p. 1255.

a. *M. foliis oblongo-ellipticis subtus ferrugineis, floribus subcontractis*. *Ait. kew.* 2. p. 251.

Icon. Bot. rep. 518. *Trew ehret.* 33.

b. *M. foliis obovato-oblongis, floribus expansis*. *Ait. l. c.*

y. *M. foliis oblongo-lanceolatis apice flexis concoloribus, floribus subcontractis*. *Ait. l. c.*

Icon. Mill. ic. 172. *Catesb. car.* 61. *Mich. arb. t.* 1.

In the forests of South Carolina and Georgia, reaching west to the Mississippi. $\frac{1}{2}$. May—Aug. v. v. This stately tree, with its elegant foliage and large white flowers, is the prince of the forests of North America. The varieties here mentioned might easily be considered as good species, if there were not so many intermediate ones, which connect them too closely to-

gether. In Carolina it is known by the name of *Big Laurel*.

2. *M. foliis ovalibus subtus glaucis, petalis obovatis basi attenuatis*.—*Willd. sp. pl. 2. p. 1256.*
a. M. foliis deciduis ovali-oblongis obtusiusculis.—*Ait. kew. 2. p. 251.*
Icon. Dill. elth. t. 168. f. 205. Catesb. car. 1. t. 39.
Trew chret. 9. Mich. arb. t. 2.
β. M. foliis perennantibus ellipticis utrinque acutis.—*Ait. l. c.*

In swamps covered with wood: New Jersey to Carolina.
β. Georgia and Florida. h. May—July. v. v. A small tree; flowers white, very fragrant. The variety *β.* is a taller tree, the branches more upright, and the leaves narrow and long; it might with propriety be considered a distinct species. This species is known by the names of *Swamp Sassafras*, *Sweet Bay*, *Swamp Laurel*, and *Beaver-wood*.

3. *M. ramis medulloso fragilibus, foliis amplissimis ob-* *longe subcuneato-ovoibus basi sinuata subauriculatis* *subtus glaucis, petalis 6. ovatis obtusis*.—*Mich. fl. amer. 1. p. 327.*
Icon. Mich. arb. t. 7.

In the deep forests of Tennessee. *h. May—July. v. v.*
s. fl. This stately small tree, with its extremely large leaves and white flowers, tinged at the bottom with red, which are larger than *M. grandiflora*, is one of the most ornamental trees America produces.

4. *M. foliis amplis oblonge subcuneato-ovoibus acutis,* *junioribus holosericeis, petalis 9. ellipticis acutis,* *exterioribus reflexis*.—*Willd. sp. pl. 2. p. 1258.*
M. umbrella. Lam. encycl. 3. p. 644.

Icon. Catesb. car. 2. t. 80. Mich. arb. t. 5.

In the mountains of Virginia and Carolina. *h. June,* *July. v. v.* Leaves large; flowers white, the size of *M. grandiflora*, and very fragrant. It is generally known by the name of *Umbrella-tree*; in the mountains they call it *Elk-wood*.

5. *M. foliis ovalibus acuminatis subtus pubescentibus, pe-* *talibus obovatis obtusiusculis*.—*Willd. sp. pl. 2. p. 1257.*

Icon. Catesb. car. 3. t. 15. Mich. arb. t. 3.

In high mountain-valleys, in fertile soil: Pennsylvania to Carolina. *h. June, July. v. v.* Flowers a dim yellow mixed with a faint blue, not much larger than those.

of *M. glauca*. It is generally known by the name of *Cucumber-tree*, and its fruits are used as a wholesome bitter among the inhabitants.

- cordata.* 6. *M. foliis cordatis subtus subtomentosis, petalis lanceo-lato-oblongis acutis.* — *Mich. fl. amer.* 1. p. 328.
Icon. *Mich. arb.* t. 4.
On dry ridges of mountains in Upper Carolina and Georgia. ♂. v. v. s. *fl.* Flowers yellow.
- auriculata.* 7. *M. foliis amplis obovato-lanceolatis acutis subtus glaucis basi cordatis auriculatis, lobis approximatis, petalis ovatis acutis sub-unguiculatis.* — *Willd. sp. pl.* 2. p. 1258.
M. auricularis. *Parad. lond.* 43.
M. Fraseri. *Walt. fl. car.* 159.
Icon. *Bot. mag.* 1206. *Bot. rep.* 573. *Mich. arb.* t. 6.
In the Allegany mountains, from the head-waters of the Susquehanna to Carolina. ♂. April, May. v. v. A beautiful tree; flowers yellowish white, large. The bark of this and some of the foregoing species is esteemed a valuable medicine, particularly in intermitting fevers; from which circumstance it is known in some places by the name of *Indian Physic*.
- pyramidata.* 8. *M. foliis rhomboideo-bovalibus abrupte acutis concoloribus basi subcordatis auriculatis, lobis divaricatis, petalis lanceolatis sensim acutis.* — *Bartr. trav.* p.
M. auriculata. *Mich. fl. amer.* 1. p. 328.
In the western parts of Carolina and Georgia. ♂. April, May. v. v. This species has generally been confounded with the foregoing one, from which it not only differs in the distinctions given above, but in general habit: the tree is of a more upright pyramidal growth, and the leaves not one fourth the size of *M. auriculata*.

453. LIRIODENDRON. *Gen. pl.* 941.

- tulipifera.* 1. *L. foliis abscisso-truncatis 4-lobatis, calyce triphylo.* — *Willd. sp. pl.* 2. p. 1254.
- acutiloba.* α. *L. lobis acutis acuminateisque.* *Mich. fl. amer.* 1. p. 326.
Icon. *Bot. mag.* 275. *Schmidt arb.* 48. *Catesb. car.* 1. t. 48. *Mich. arb.* t.
- obtusiloba.* β. *L. lobis rotundato-obtusissimis.* *Mich. l. c.*
In fertile ground: Canada to Florida. β. In Pennsylvania. ♂. June, July. v. v. A highly ornamental and use-

ful timber tree; flowers yellow and red, mixed with green. Generally known by the name of *Tulip-tree*, or *White and Yellow Poplar*.

454. PORCELIA. *Prodr. fl. peruv.* p. 84.

Orchidocarpum. Mich. fl. amer. 1. p. 329.

1. *P. foliis glabriusculis oblonge cuneato-ovobatis, petalis exterioribus obovatis, fructibus magnis carnosis.*—*Pers. syn. 2. p. 95.*
- Anona triloba. Willd. sp. pl. 2. p. 1267.*
Orchidocarpum arietinum. Mich. fl. amer. 1. p. 329.
Icon. Catesb. car. 2. t. 83. Trew ehret. 5. Duham. arb. 1. t. 19.
- On the overflowed banks of rivers: Pennsylvania to Florida. $\frac{1}{2}$. March, April. v. v. A small tree; flowers dark brown; fruits large, eatable.
2. *P. foliis cuneato-ovobatis basi acutis ramulisque rufo-pubescentibus, petalis omnibus ovalibus, fructibus ovatis subcarnosis.*—*Pers. syn. 2. p. 95.*
- Orchidocarpum parviflorum. Mich. fl. amer. 1. p. 329.*
In shady woods, near rivers and lakes: Virginia to Georgia. $\frac{1}{2}$. April, May. v. v. A low shrub, sometimes not above two feet high, when in full fruit; flowers small, dark purple.
3. *P. foliis elongato-lanceolatis cuneatisve lavigatis, petalis exterioribus majoribus obovato-oblongis, interioribus longioribus.*—*Pers. syn. 2. p. 95.*
- Orchidocarpum pygmaeum. Mich. fl. amer. 1. p. 330.*
Anona pygmaea. Willd. sp. pl. 2. p. 1268.
Icon. Bartr. trav. t. 1.
- In sandy fields: Georgia and Florida. $\frac{1}{2}$. v. v. Flowers the size of *Anona squamosa*; the whole shrub not above a foot high.
4. *P. foliis cuneato-ovoalibus basi obtusis ramulisque rufo-pubescentibus, petalis exterioribus majoribus obovatis, interioribus oblongis.*—*Pers. syn. 2. p. 95.*
- Orchidocarpum grandiflorum. Mich. fl. amer. 1. p. 330.*
Anona obovata. Willd. sp. pl. 2. p. 1269.
Icon. Bartr. trav. t. 2.
- In sandy woods, in shady places: Georgia and Florida. $\frac{1}{2}$. May. v. s. A small shrub: flowers very large in proportion, white.

*triloba.**parviflora.**pygmaea.**grandiflora.*

455. ATRAGENE. *Gen. pl. 949. Sims in bot. mag. 887.*

- americana.* 1. *A. foliis quaternis ternatis, foliolis cordatis subintegerimis, nectariis acutis. Sims l. c. cum icono.*
In shady places, on the side of rivulets, climbing and creeping among loose rocks : New York and Pennsylvania, near the foot of the Blue-mountains. ♂. May, June. v. v. Flowers large, purple.

456. CLEMATIS. *Gen. pl. 960.*

- virginica.* 1. *C. scandens; foliis ternatis, foliolis ovatis subcordatis inciso-dentatis lobatisque, corymbis dichotomis paucifloris, petalis staminibus longioribus, floribus dioicis.* — *Willd. sp. pl. 2. p. 1290.*
In hedge-rows and among small shrubberies on the side of woods : Canada to Florida. ♂. June—Aug. v. v. Flowers small, white, and fragrant.
- cordata.* 2. *C. scandens; foliis pinnatis bijugis, foliolis cordatis lobatis acuminatis inciso-dentatis, dentibus mucronatis, racemis compositis elongatis multifloris, staminibus petalis subaequantibus, floribus dioicis.*
On high mountains : Virginia. ♂. July. v. v. Flowers resembling the former species. In general appearance it approaches near to *C. Vitalba*.
- holosericea.* 3. *C. scandens, tota holosericeo-pubescentis; foliis ternatis oblongo-lanceolatis integris utrinque pubescentibus, corymbis trichotomis paucifloris, petalis linearibus staminibus longioribus, floribus dioicis.*
In Carolina. ♂. v. s. in *Herb. Walter.* The flowers small, white ; tails of the seeds very long, feathered.
- Walteri.* 4. *C. scandens; foliis pinnatis cirrhosis trijugis, foliolis divaricatis petiolatis linear-lanceolatis acutis integerimis subtus glaucis, floribus solitariis, petalis ellipticis staminibus duplo longioribus.*
In Carolina. ♂. v. s. in *Herb. Walter.* Flowers white.
- erispe.* 5. *C. scandens; foliis pinnatis ternatisque, foliolis divaricatis ovato-lanceolatis acutis trilobisve integerimis, floribus solitariis, corollis campanulatis acuminatis revolutis margine undulatis, aristis seminum subulatis nudis.* — *Willd. sp. pl. 2. p. 1289.*
Icon. *Dill. elth. t. 73. f. 84.*
In hedges and among bushes on the side of rivers : Vir-

- ginia and Carolina. ♂. July, Aug. v. v. Flowers large, purple.
6. C. scandens; foliis pinnatis, foliis ovatis utrinque acutis glabris simplicibus pedicellatis, pedunculis terminalibus solitariis, corollis cernuis cylindricis, petalis subcoriaceis undulatis conniventibus, aristis seminum plumosum.—*Sims in bot. mag.* 1160.
- C. Viorna. *Bot. rep.* 71.
- In Virginia and Carolina. ♂. June—Aug. v. v. Flowers large, of a fine pale purplish blue.
7. C. scandens; foliis pinnatis 4-jugis, foliolis ovatis utrinque obtusis omnibus integris petiolatisque membranaceis utrinque reticulato-venosis, floribus solitariis, petalis subcoriaceis, aristis seminum plumosum.—*Walt. fl. car.* 156. *Mich. fl. amer.* 1. p. 318.
- C. rosea. *Abbot insect. t.*
- In Georgia and Carolina. ♂. June, July. v. s. in *Herb. Walter.* Flowers resembling the following species, pale purplish-red.
8. C. scandens; foliis divaricato-compositis decompositisque, foliolis ovali-lanceolatis utrinque acutis trifidisque integerrimis, floribus solitariis campanulatis, petalis crassis acuminate.—*Willd. sp. pl.* 2. p. 1288.
- Icon. *Bot. rep.* 71. *Dill. elth. t.* 118. f. 144.
- In hedges and copes: Virginia and Carolina. ♂. June—Aug. v. v. Flowers dark blue, large.
9. C. erecta, simplex; foliis hirsutissimis bipinnatifidis incisis, lacinias linearibus acutis, caulinis composite-mulfiditis, pedunculo terminali solitario, flore erecto campanulato, petalis 4. erectis ovatis obtusiusculis apice reflexis.
- On the plains of Columbia river. ♀. May. v. s. in *Herb. Lewis.* The whole plant is covered with a close coat of long hairs like *Anemone Pulsatilla*, which it very much resembles in several respects. I consider all the division of *Anemones* with caudated seeds to belong to this genus, or at least to one separate from *Anemone*.
10. C. erecta, simplex, pubescens; foliis simplicibus ova- libus integerrimis, junioribus calycibusque extus in- cano-sericeis, pedunculo terminali solitario, flore cer- nuo.—*Mich. fl. amer.* 1. p. 319.
- C. ochroleuca. *Willd. sp. pl.* 2. p. 1294.
- Icon. *Bot. mag.* 1175.
- cylindrica.*
- reticulata.*
- Viorna.*
- hirsutissima.*
- sericea.*

On the banks of rivers : Pennsylvania and Virginia ; rare.
U. May—July. *v. v.* About a foot high ; flowers
 inside yellow.

457. ANEMONE. *Gen. pl. 948.*

- nemorosa.* 1. A. caule unifloro, foliis caulinis ternis ternatis, foliolis cuneatis inciso-lobatis dentatis acutis, corollis 5-6-petalis, seminibus ovatis stylo brevi uncinatis.—*Willd. sp. pl. 2. p. 1281.*
Icon. Fl. dan. 549. Engl. bot. 355.
- quinquefolia.* β. A. foliis lateralibus profunde bipartitis. *Willd. sp. pl. 2. p. 1281.*
Icon. Plak. alm. t. 106. f. 3.
 In shady woods, round the roots of trees : Canada to Carolina. *U.* March, April. *v. v.* Flowers white, with a tinge of red on the under side ; sometimes nearly double. Var. β. can never be considered as a species, as there are intermediate varieties between it and the original species.
- lancifolia.* 2. A. caule unifloro, foliis caulinis ternis ternatis, foliolis lanceolatis crenato-dentatis, corollis 5-petalis, seminibus ovatis stylo brevi uncinatis.
 A. trifolia. *Willd. sp. pl. 2. p. 1281?*
 On high mountains, in boggy soil : Pennsylvania and Virginia. *U.* May—July. *v. v.* Resembles the foregoing species ; flowers larger, and clear white.
- cuneifolia.* 3. A. caule unifloro involucrato, foliis ternatis, foliolis sessilibus cuneatis apice truncato-crenatis, involucro 3-phyllo, corollis 5-petalis, seminibus capitato-globosis lanatis acuminate.—*Juss. in annal. du mus. 3. p. 248. t. 21. f. 1.*
 A. parviflora. *Mich. fl. amer. 1. p. 319.*
 A. tenella. *Herb. Banks.*
 On the banks of rivulets, near Hudson's Bay and Labrador. *U.* March—May. *v. s. in Herb. Dickson.* Flowers white, the size of No. 1.
- tenella.* 4. A. caule unifloro involucrato, foliis subbiternatis, foliolis 3-fidis seu 3-dentatis acutis involucro 3-partito, laciniis incisis, petalis 12—15-linearibus, seminibus lanatis mucronatis, radice tuberosa.
 A. caroliniana. *Walt. fl. car. 157.*
 On the banks of the Missouri. *M. Lewis.* In Carolina. *Walter.* *U.* May. *v. s. in Herb. Lewis.* Flowers

purple, small; the whole plant very slender and delicate; roots tuberous.

5. *A. caule unifloro nudo, foliis palmatis longius petiolatis, corolla 5-petala, radice tuberosa.* *Walteri.*

Thalictrum carolinianum. Walt. fl. car. 157.

In Carolina. *Walter.* \mathcal{U} . +. I was not able to find any information respecting this plant in the Walterian Herbarium, but consider it to belong rather to this genus than to *Thalictrum*.

6. *A. floribus umbellatis involucratis, foliis radicalibus binternatis, foliolis subcordatis 3-dentatis, involucro 6-phyllo, foliolis petiolatis conformibus, umbella pauciflora, seminibus nudis striatis, radice tuberosa.* *thalictroides.*
Willd. sp. pl. 2. p. 1284.

Thalictrum anemonoides. Mich. fl. amer. 1. p. 322.

Icon. Bot. mag. 866. Annales du mus. 3. t. 21. f. 2. a.

& b. Pluk. alm. t. 106. f. 4. Willd. hort. berol. 44.

- β . *A. involucro unifloro. Gronov. virg.* *uniflora.*
In woods, frequent: Canada to Carolina. \mathcal{U} . March—May. v. v. Flowers white. A beautiful double variety is cultivated in the gardens, which in delicacy of figure and colour exceeds any other species of this elegant genus.

7. *A. floribus umbellatis involucratis, foliis radicalibus multifido-palmatis incisis, lacinias linearibus, involucris sessilibus incisis, umbella pauciflora, pedicellis involucro longioribus.* *narcissiflora.* *Willd. sp. pl. 2. p. 1283.*

In Canada and on the north-west coast. \mathcal{U} . April, May.
v. s. Flowers white.

8. *A. caule dichotomo, foliis radicalibus palmatis, caulinis *pensylvanica*.* *sessilibus amplexicaulibus 3-fidis: infimis ternatis: lobis acute lanceolatis inciso-serratis, pedunculis solitariis unifloris, seminibus capitulo globoso nudis subulato-rostellatis.* *Willd. sp. pl. 2. p. 1280.*

A. aconitifolia. Mich. fl. amer. 1. p. 320.

In meadows and on the borders of woods: Canada to Pennsylvania. \mathcal{U} . June, July. v. v. Flowers large, white; anthers yellow.

9. *A. caule dichotomo, foliis caulinis omnibus oppositis amplexicaulibus trifidis, lobis cuneato-lanceolatis superne inciso-serratis, pedunculis solitariis unifloris, seminibus capitulo globoso nudis recurvato-mucronatis.* *Willd. sp. pl. 2. p. 1280.*

A. irregularis. Lam. encycl. 1. p. 167.

dichotoma.

Icon. *Linn. fil. dec. 2. t. 15.*

In wet woods and natural meadows: Canada and the western parts of New York. ♀. May, June. v. v. Flowers white, with a tinge of red on the under side, smaller than the foregoing species.

- virginiana.* 10. A. caule dichotomo, foliis ternis ternatis, superioribus oppositis, foliolis inciso-lobatis serratisque acutis, pedunculis solitariis unifloris elongatis, seminibus capitulo oblongo lanatis mucronatis.—*Willd. sp. pl. 2. p. 1279.*

Icon. *Herm. parad. t. 18.*

In woods, on the side of dry sandy hills: Canada to Carolina. ♀. May, June. v. v. Flowers small, greenish-yellow.

458. THALICTRUM. *Gen. pl. 951.*

- Cornuti.* 1. T. foliis supradecompositis, foliolis ovatis trifidis, paniculis terminalibus.—*Willd. sp. pl. 2. p. 1296.*

Icon. *Corn. canad. 186.*

On the banks of rivers and in wet meadows: Canada to New England. ♀. June, July. v. v. From two to three feet high; flowers small and greenish-yellow.

- dioicum.* 2. T. lœvигatum; foliis supradecompositis, foliolis subrotundis cordatis obtuse-lobatis subtus glaucis lœvibus, paniculis axillaribus filiformibus folio brevioribus, floribus parvis in umbellis paucifloris.—*Willd. sp. pl. 2. p. 1296.*

T. lœvигatum. *Mich. fl. amer. 1. p. 322.*

In shady woods and on the banks of rivers: Canada to Virginia. ♀. May—July. v. v. Not above a foot high; flowers white.

- rugosum.* 3. T. caule striato, foliis supradecompositis, foliolis ovatis lanceolatisque rugosis venosis obtuse-lobatis, paniculis amplis terminalibus.—*Willd. sp. pl. 2. p. 1298.*

On the banks of rivers and in swamps: Pennsylvania to Carolina. ♀. June—Aug. v. v. Very tall, sometimes above five feet high; flowers white.

- pubescens.* 4. T. tenui tomento pubescens; foliis supradecompositis, foliolis ovatis subcordatis cuneatisque apice 3-lobis, supra subrugosis, subtus subtomentosis, paniculis terminalibus, pedicellis subumbellatis divaricatis, floribus polygamis.

T. polygamum. *Muhl. mss.*

- On the banks of ditches and rivulets : Pennsylvania and Virginia. $\frac{1}{4}$. June—Aug. v. v. A tall species ; flowers white.
5. T. caule foliis duplo altiore, foliis compositis, foliolis *purpurascens*. subrotundis 3-fidis incisis, paniculis nudiusculis, floribus cernuis, staminibus coloratis.—*Willd. sp. pl. 2. p. 1299.*
- On dry sunny hills : Pennsylvania and Virginia. $\frac{1}{4}$. May, June. v. v. A small plant ; stem and filaments purple.
6. T. foliis simplicibus 5-lobis serratis, floribus corymbosis. —*Willd. enum. 585.*
- In Carolina. *Willdenow.* $\frac{1}{4}$. +. Flowers resembling those of *T. speciosum*.

*ranunculi-num.*459. HYDRASTIS. *Gen. pl. 958.*

1. H. caule superne opposite diphylo, foliis petiolatis basi emarginatis palmatis serratis incisis, pedunculo terminali solitario unifloro.—*Willd. sp. pl. 2. p. 1340.*
Icon. *Mill. ic. t. 285.*
- In shady woods, on fertile soil and among rocks : Canada to Carolina, principally in the Allegany mountains. $\frac{1}{4}$. April, May. v. v. Flowers pale rose-coloured ; berry red. The roots are yellow, and afford a fine dye.

*canadensis.*460. BRASENIA. *Gen. pl. 938.*

- Hydropeltis. *Mich. fl. amer. 1. p. 323.*
1. B. foliis centro peltatis ovalibus integerrimis, pedunculis solitariis unifloris.
- Hydropeltis purpurea. *Mich. fl. amer. 1. p. 324. t. 29.*
Icon. *Bot. mag. 1147. Pluk. alm. t. 349. f. 3.*
- In lakes and slow-flowing waters : New Jersey to Carolina. $\frac{1}{4}$. June—Aug. v. v. Floating on the water ; the whole plant has a purple colour ; the flowers dark purple, the size of *Caltha*; the petioles and under surface of the leaves are covered with a transparent gelatinous substance.

*peltata.*461. CALTHA. *Gen. pl. 957.*

1. C. caule erecto unifloro unifolio, foliis radicalibus cordato-ovatis obtusissimis paucidentatis multinervibus, petalis ellipticis.

Ranunculus Ficaria. Walt. fl. car. 159.

In shady cedar-swamps of New Jersey and Carolina.
♀. June, July. v. v. Flowers deep yellow, the size
of *Ranunculus Ficaria*.

integerrima.

2. C. caule erecto corymboso, foliis integerrimis sinu clauso
orbiculato-cordatis, floralibus sessilibus reniformibus
basi obsolete crenatis, petalis obovalibus.

In wet meadows and small rivulets: New England to
Virginia. ♀. May—July. v. v. Flowers yellow,
smaller than the following species.

palustris.

3. C. caule erecto corymboso, foliis cordato-reniformibus:
lobis patulis, circumcirca acute-crenatis, floralibus sub-
sessilibus, petalis ovatis.—Willd. sp. pl. 2. p. 1338.

Icon. Fl. dan. 668. Engl. bot. 506.

In low boggy meadows: Canada to Pennsylvania. ♀.
April—June. v. v. Flowers golden yellow, large.

flabellifolia.

4. C. caule procumbente, foliis dilatato-reniformibus: lobis
patentissimis, circumcirca argute acuteque dentatis,
pedunculis axillaribus solitariis unifloris, petalis obova-
tis, capsulis rostro adunco.

In a large sand-spring on Pokono-mountain, Pennsylvania.
♀. July, Aug. v. v. Flowers yellow, the size of
Ranunculus arvensis. This plant has some affinity
with *C. natans* Willd. sp. pl. 2. p. 1339. of which I
have seen perfect specimens in the Herbarium of A.
B. Lambert, Esq., collected by Pallas in the most
eastern parts of Siberia, under the name of *C. pusilla*,
which I distinguish by the following diagnosis: *Caltha natans*, caule procumbente natante, foliis cordato-re-
niformibus: lobis subapproximatis, postice obsolete
crenatis, antice dentatis, petalis ovalibus, capsulis ro-
stro recto. The flowers of that species are white, with
a tinge of red, of the same size as the present species.

462. COPTIS. Salisb. in linn. trans. 8. p. 305.

trifolia.

1. C. foliis ternatis, foliolis rotundato-bovalibus acumina-
to-crenatis, scapo unifloro.—Salisb. l. c.

Helleborus trifolius. Willd. sp. pl. 2. p. 1338.

Icon. Fl. dan. 566.

In cedar-swamps and mountain bogs: Canada to Virgi-
nia. ♀. May—July. v. v. A delicate small plant;
flowers white.



Caltha palustris.

2. *C. foliis biernatis, foliolis subpinnatifidis, scapo bifloro. asplenifolia.*
—*Salisb. l. c. p. 306.*

On the north-west coast. *Menzies. 4. v. s. in Herb.*
Banks. Flowers larger than the foregoing one.

463. TROLLIUS. *Gen. pl. 954.*

1. *T. petalis 5. obtusis patulis, nectariis staminibus brevioribus. Salisb. in Linn. trans. 8. p. 308.*

T. americanus. Donn catal.

T. pentapetalus. Herb. Banks.

In shady wet places, on the mountains of New York
and Pennsylvania. *4. May—July. v. v.* Flowers
yellow, the size of *Ranunculus acris.*

464. HEPATICA. *Willd. enum.*

1. *H. foliis trilobis integerrimis, scapis unifloris.—Willd.*
enum.

Anemone Hepatica. Willd. sp. pl. 2. p. 1273.

Icon. Bot. mag. 10. Pl. dan. 610.

α . *H. lobis rotundatis obtusis.*

β . *H. lobis ovalibus acutis.*

In woods, on the side of fertile and rocky hills: Canada
to Carolina. *4. March—May. v. v.* Flowers blue or
purple; generally smaller than in the European plant.

465. RANUNCULUS. *Gen. pl. 953.*

* *Foliis simplicibus, integris.*

1. *R. glaber, caule declinato, foliis angusto-lanceolatis acutis integerrimis denticulatisque, inferioribus petiolatis, pedunculis terminalibus axillaribus unifloris, calycibus subreflexis.—Willd. sp. pl. 2. p. 1307.*

Icon. Fl. dan. 575. Engl. bot. 387.

In inundated places and small rivulets: Pennsylvania and
Virginia. *4. July—Sept. v. v.* Flowers deep yellow, small.

2. *R. adpresso-pilosus; foliis lanceolatis subdenticulatis acuminatis subsessilibus, caule erecto multifloro.—*
Willd. sp. pl. 2. p. 1308.

Icon. Engl. bot. 100. Fl. dan. 755.

On the banks of rivers, among *scirpus* and other river
plants: Pennsylvania and Virginia. *4. July, Aug.*

v. v. Resembles the preceding one, but is upright, the flowers larger and in greater abundance.

- pusillus.* 3. *R. glaber*; foliis petiolatis, inferioribus ovatis dentatis, superioribus linear-i-lanceolatis apice dentatis, supremis linearibus bracteiformibus, pedunculis alternis solitariis unifloris.

R. flammula. *Walt. fl. car.* 159. *Mich. fl. amer.* 1. p. 321.

4. *June—Aug. v. s. in Herb. Enslen.* A small species, with exceeding small flowers, petals pale yellow.

- filiformis.* 4. *R. glaber, pusillus*; caulis filiformibus repentinibus geniculatis, geniculis unifloris, foliis linear-i-subulatis obtusis.—*Mich. fl. amer.* 1. p. 320.

In inundated places, on the river St. Lawrence, Hudson's Bay, and Labrador. 4. *June, July. v. s. in Herb. Banks.* Resembles *R. reptans* very much.

- Cymbalaria.* 5. *R. glaber, minimus, filiformis, repens, ad genicula radicans*; foliis cordato-reniformibus obtuse 3-dentatis, pedunculis radicalibus solitaris plerumque bifloris, petalis linearibus, fructibus oblongis.

In saline marshes near the salt-works of Onondago, New York. 4. *June, July. v. v.* Flowers the size of the foregoing one, pale yellow, sometimes white. This little plant has some resemblance to *R. salsuginosus* of Pallas, whose specimens I had an opportunity of seeing in the collection of A. B. Lambert, Esq. and which may be distinguished by the following diagnosis: *R. glaber, filiformis, repens, ad genicula radicans*; foliis ovatis rariter cordatis apice 3-dentatis, pedunculis radicalibus solitariis plerumque unifloris, petalis obovatis, fructibus subglobosis. The flowers are more than ten times larger than in *R. Cymbalaria*.

** *Foliis dissectis et divisis.*

- abortivus.* 6. *R. glaber*; caulis striatis inferne nudis, foliis radicalibus cordato-reniformibus obtuse-crenatis, caulinis petiolatis ternatis angulatis, superioribus sessilibus, ramulis substrifloris.—*Willd. sp. pl.* 2. p. 1314.

In wet places on the side of ponds and ditches: New York to Carolina. 4. *July, Aug. v. v.* Flowers small, yellow.

- nitidus.* 7. *R. glaberrimus*; caulis fistulosus, foliis radicalibus rotundato-subreniformibus obtuse-crenatis, caulinis ses-

silibus digitatis, foliolis incisis, laciinis obtusis, seminibus subglobosis glaberrimis.—*Walt. fl. car.* 159. *Lam. encycl.* 6. p. 126.

In inundated grounds: New York to Carolina. ♀. July, Aug. v. v. Flowers small; petals white. This and the foregoing one are nearly related to each other, and probably only varieties of the same species, though distinguished by Walter and Lamarck.

8. *R. glaber*; foliis inferioribus palmatis, superioribus sessilibus digitatis, fructibus oblongis.—*Willd. sp. pl.* 2. p. 1315.

Icon. Fl. dan. 571. *Engl. bot.* 681.

In ponds and ditches: Canada to Virginia. ♀. June—Aug. v. v. Flowers yellow, small.

9. *R. pubescens*; foliis radicalibus reniformibus tripartitis inciso-crenatis, caulinis sessilibus digitatis linearibus, caule multifloro, calyce colorato patente.—*Willd. sp. pl.* 2. p. 1314.

Icon. Fl. dan. 665. *Engl. bot.* 624.

In old meadows and woods: Pennsylvania. ♀. May, June. v. v. Flowers yellow, middle-sized.

10. *R. pusillus*, *glaber*; foliis radicalibus subcordato-reniformibus inciso-dentatis, caulinis sessilibus digitatis, laciinis linearibus integerrimis, caule paucifloro, petalis oblongis calyce subæquantibus.

In Labrador. *Colmaster.* ♀. May, June. v. s. in *Herb. Dickson.* Flowers small, yellow; it approaches very near to *R. nivalis*.

11. *R. pilosus*, *erectus*, *ramosus*; foliis ternatis trifidis incisis subtus pilosis, pedunculis teretibus, calycibus reflexis, petalis calyce subæquantibus.—*Willd. sp. pl.* 2. p. 1323.

R. canadensis. *Jacq. ic. rar.* 1. t. 105.

In low meadows: Canada to Pennsylvania; rare. ♀. July, Aug. v. v. Flowers the size of *R. acris*.

12. *R. hirsutissimus*; foliis compositis: ternatis trifidis incisis dentatisque, caule erecto multifloro, pedunculis sulcatis, calycibus retroflexis, radice bulbosa.—*Willd. sp. pl.* 2. p. 1324.

Icon. Fl. dan. 551. *Engl. bot.* 515.

In meadows and grass plots, common. ♀. May—Aug. v. v.

13. *R. hirsutus*; foliis ternatis inciso-lobatis, caule erecto

sceleratus.

auricomus.

pygmaeus.

pensylvani-
cus.

bulbosus.

Philonotis.

POLYANDRIA POLYGYNIA. Ranunculus.

- multifloro, pedunculis sulcatis, calycibus retroflexis acuminatis, seminibus tuberculatis, radice fibrosa.—
Willd. sp. pl. 2. p. 1324.
- R. hirsutus. *Curt. lond. 2. t. 40. Engl. bot. 1504.*
In old meadows and low wet fields: New England to Pennsylvania. ¼. June—Oct. v. v. Resembles the foregoing one.
- repens.* 14. R. hirsutus; foliis compositis: ternatis trifidis incisis, sarmenis repentibus, pedunculis sulcatis, calycibus patulis. *Willd. sp. pl. 2. p. 1325.*
Icon. *Fl. dan. 795. Engl. bot. 516.*
In shady wet woods, particularly in the mountains: Pennsylvania to Virginia. ¼. July, Aug. v. v. Flowers deep yellow.
- acris.* 15. R. adpresso-pilosus; foliis tripartito-multifidis, summis linearibus, pedunculis teretibus, calycibus patulis.—
Willd. sp. pl. 2. p. 1326.
Icon. *Engl. bot. 652.*
In wet meadows, in the western parts of New York and Canada. ¼. May—Aug. v. v.
- lanuginosus.* 16. R. hirsutus; foliis trifidis lobatis dentatis holosericeis, pedunculis elongatis teretibus, calycibus patulis.—
Willd. sp. pl. 2. p. 1327.
Icon. *Fl. dan. 397.*
In old fields and meadows: Pennsylvania to Carolina. ¼. June—Oct. v. v.
- tomentosus.* 17. R. villosissimus, humilis; caule repente 1–2-floro, foliis tomentosis trilobatis, calycibus hispidis subreflexis.—
Lam. encycl. 6. p. 127.
In Carolina. *Bosc.* ¼. +. Flowers yellowish-white.
- marylandicus.* 18. R. pubescens; caule simplici subnudo, foliis radicalibus ternatis, foliolis trilobatis, lobis acutis incisis, calycibus reflexis. *Lam. encycl. 6. p. 126.*
In shady woods: Pennsylvania to Virginia. ¼. May—July. v. v. Flowers pale yellow.
- recurvatus.* 19. R. pubescens; foliis trilobis, lobis basi cuneiformibus, apice incisis acutis, caule multifloro, corolla calycibusque recurvis, petalis linearibus.—*Lam. encycl. 6. p. 125.*
In shady woods: New York to Carolina. ¼. June—Ang. v. v. Flowers small; petals almost white.
- septentrionalis.* 20. R. glabriusculus; foliis membranaceis glabris ternatis, foliolis subtrilobatis incisia acutis, caule petiolisque

basi hirsutis, pedunculis subbifloris, calycibus reflexis.
Lam. encycl. 6. p. 125.

In North America. *Lamarck.* 4. +. Flowers pale yellow.

21. *R. hirsutissimus*, erectus ; foliis ternatis, foliolis acute lobatis, caulibus infra primum pedunculum nudis paucifloris, calyce appresso. *Mich. fl. amer. 1. p. 321.*
 In wet fields and on the banks of ditches : Virginia and Carolina. 4. June—Aug. v. v. Flowers small, pale yellow. *hispidus.*
22. *R. foliis submersis capillaceis, emersis peltatis.* *Willd. sp. pl. 2. p. 1332.*
R. heterophyllus. Roth fl. germ. 1. p. 240.
 Icon. *Engl. bot. 101. Fl. dan. 376.*
 In ponds and slow-flowing rivulets: Canada to New York. 4. June, July. v. v. Flowers white. *aquatilis.*
23. *R. foliis omnibus dichotomo-capillaceis, caule natante.* *Willd. sp. pl. 2. p. 1333.*
 Icon. *Fl. dan. 376.*
 In tranquil rivers: Pennsylvania to Carolina. 4. June — Aug. v. v. Flowers white. *fluvialis.*

*** *Seminibus aculeatis.*

24. *R. glabellus*, diffusus ; foliis simplicibus subrotundis triblobatis, calycibus longitudine corollarum.—*Willd. sp. pl. 2. p. 1329.*
 Icon. *Lam. illustr. t. 498. f. 2. Alp. exot. 262.*
 In old fields: Virginia and Carolina. 5. June, July. v. v. Flowers yellow. *muricatus.*
25. *R. glabellus*, simplex ; foliis simplicibus subrotundis triblobatis, petalis calyce duplo longioribus.—*Vent. hort. cels 73.*
 Near Charlestown, South Carolina. *Bosc.* +. Flowers yellow, more than twice the size of the preceding one. *echinatus.*

466. SAGITTARIA. *Gen. pl. 1441.*

1. *S. foliis lanceolatis acutis sagittatis, lobis lanceolatis acutis rectis, scapo simplici, floribus monoicis, bracteis calycibusque lanceolatis acutis.*—*Willd. sp. pl. 4. p. 408.*
 Icon. *Fl. dan. 172.*
 In small ponds and ditches: Pennsylvania to Carolina. *sagittifolia.*
β. minor.

- latifolia.* 2. S. foliis ovatis acutiusculis sagittatis, lobis ovatis tenuissime acuminatis rectis, scapo simplici, floribus monoicis, bracteis subrotundis obtusis.—*Willd. sp. pl. 4. p. 409.*
major. S. sagittifolia. *Mich. fl. amer. 2. p. 189.*
obtusa. β. S. foliis amplis abrupte acutis, scapo subramoso, floribus dioicis.
 In ponds and ditches: Canada to Carolina. Ȑ. June—Aug. v. v. Leaves large and broad.
 3. S. foliis dilatato-ovatis rotundato-obtusis mucronatis sagittatis, lobis approximatis oblongis oblique-acuminatis rectis, scapo simplici, floribus dioicis, bracteis ovatis acutis.—*Willd. sp. pl. 4. p. 409.*
 In ditches and shallow ponds: Pennsylvania to Virginia.
 Ȑ. June—Sept. v. v. Leaves the size of *Calla palustris.*
- hastata.* 4. S. foliis oblongo-lanceolatis sensim-acutis sagittatis, lobis patentibus lanceolatis longissime acuminatis, scapo simplici, floribus dioicis, bracteis calycibusque subrotundis obtusis.
 In old ditches: Pennsylvania. Ȑ. July, Aug. v. v. Leaves the size of *S. sagittifolia*; the lobes very spreading.
- gracilis.* 5. S. foliis linearibus obtusiusculis 3-nervibus sagittatis, lobis patentibus linearibus elongatis sensim tenuissime acuminatis, scapo simplici paucifloro, floribus dioicis, bracteis brevibus suborbiculatis.
 In bogs and ditches: Pennsylvania to Virginia, particularly on the mountains. Ȑ. July, Aug. v. v. Leaves very slender, about three inches long, measured from the beginning of the petiole.
- heterophylla.* 6. S. foliis simplicibus linearibus lanceolatisque utrinque acutis, seu ellipticis acutis basi obtusis sagittatis, lobis divaricatis linearibus, scapo simplici paucifloro, floribus monoicis, femaleis subsessilibus, bracteis lato-ovatis acuminatis.
 In small ponds and ditches: Pennsylvania and New Jersey. Ȑ. June—Aug. v. v. Leaves about two inches and a half long: this species is easily distinguished by the female flowers being almost sessile.

7. *S. foliis lato-lanceolatis inferne angustatis, scapo subramoso, seminibus planis falcatis rostratis.*
S. lancifolia. Mich. fl. amer. 2. p. 189.
 In ponds: Carolina. $\frac{1}{2}$. July, Aug. v. s. in Herb. Lyon.
8. *S. foliis angusto-lanceolatis inferne carinatis rigidis utrinque acutissimis, scapo ramoso, floribus monoicis.*
 In still and deep waters of Oswego river near the great falls, New York. $\frac{1}{2}$. July, Aug. v. v. This species grows in a depth of more than seven feet water; the petioles are strong and stiff; the flowers very numerous.
9. *S. foliis lineari-lanceolatis acutis inferne angustatis, scapo simplici multifloro, floribus dioicis, bracteis calycibus que rotundatis obtusis.*
 In small ponds: New Jersey. $\frac{1}{2}$. July, Aug. v. v. Leaves about six inches long and half an inch wide; flowers from twelve to eighteen in a scape.
10. *S. foliis linearibus longissimis 3-nervibus, scapo simplici paucifloro, floribus monoicis, bracteis oblongis obtusis.*
S. graminea; foliis lanceolato-linearibus, capitulis pistillorum pusillis. Mich. fl. amer 2. p. 190?
 In Carolina. Lyon. Canada. Michaux. $\frac{1}{2}$. July, Aug. v. s. in Herb. Lyon.
11. *S. foliis subulatis basi vaginantibus dorso convexis, scapo simplici paucifloro, floribus monoicis, bracteis dilatatis acuminatis.*
 In small rivulets and ditches, near Philadelphia. $\frac{1}{2}$. July, Aug. v. v. A small species; leaves sometimes with a dilated point, representing a leaf.
12. *S. foliis natantibus elliptico-lanceolatis obtusis 3-nervibus basi attenuatis, infimis subcordatis, scapo simplici paucifloro, pedunculis inferioribus elongatis.—Mich. fl. amer. 2. p. 190.*
 In rivulets of Lower Carolina. $\frac{1}{2}$. July, Aug. v. s. in Herb. Lyon. Flowers small; leaves about an inch and a half long.

467. CYAMUS. *Salisb. in annals of bot. 2. p. 75.*Nelumbium. *Willd. sp. pl. 2. p.**flavicomus.*

1. C. foliis peltatis orbiculatis integerrimis, corolla polypetala, antheris superne linearibus.—*Salisb. l. c.*

Nelumbium luteum. *Willd. sp. pl. 2. p. 1259.**Nymphaea Nelumbo β. Sp. pl. 730.*Icon. *Bartr. ic. ined. in mus. Banks.*

In ponds and lakes of Carolina and Virginia; also near Philadelphia, in ditches and ponds of Brobston's meadows. $\frac{1}{2}$. July. v. v. Flowers large, yellow, resembling a double tulip. The seeds are very agreeable to eat, and eagerly sought for by children and Indians. By the latter it is supposed they were introduced to those ponds near Philadelphia, as there is no other instance known to have been found so far north. Walter mentions his *Nelumbo* to have white flowers; this variety I have never seen.

pentapetalus. 2. C. foliis peltatis orbiculatis integerrimis, calyce pentaphyllo, corolla pentapetala.Nelumbium pentapetalum. *Willd. sp. pl. 2. p. 1259.**Nymphaea pentapetala. Walt. fl. car. 155.*

In North and South Carolina. $\frac{1}{2}$. July. v. s. Flowers large, white. A specimen seen in the collection of a gentleman in Carolina ascertains the existence of this formerly doubtful plant; but unfortunately I took no notes at that time, being in expectation of seeing the living plant.

reniformis. 3. C. foliis reniformibus, corolla polypetala.Nelumbium reniforme. *Willd. sp. pl. 2. p. 1260.**Nymphaea reniformis. Walt. fl. car. 155.*

In Carolina. *Walter.* $\frac{1}{2}$. +. This is a doubtful species, and probably a plant belonging to a different genus.

468. POTHOS. *Gen. pl. 210.**fetida.*

1. P. scaulis; foliis ovatis cordatis, spadice subgloboso.—*Mich. fl. amer. 2. p. 186.*

Dracontium fetidum. *Willd. sp. pl. 2. p. 288.*Icon. *Bot. mag. 836. Catesb. car. 2. t. 71.*

In low grounds, on the side of shady rivulets and springs: Canada to Virginia. $\frac{1}{2}$. Feb.—April. v. v. Leaves large; flowers several, almost sessile on the ground,

of a singular shape, spotted yellow and brown; the whole plant very fleshy, from which it has the name of *Skunk-weed* or *Skunk-cabbage*. It has four distinct, truncated, fleshy petals, and four stamens to each germ,

469. CALLA. *Gen. pl. 1388.*

1. *C. foliis subrotundo-cordatis acutis, spatha ovata cuspidata*.—*Willd. sp. pl. 2. p. 290.* *palustris.*

Icon. *Fl. dan. 422.*

In sphagnum swamps, on the mountains and near rivulets: Canada to Pennsylvania. $\frac{1}{4}$. July, Aug. v. v. Flowers white.

470. ARUM. *Gen. pl. 1387.*

1. *A. acaule; foliis hastato-cordatis acutis, lobis obtusis, spatha elongata incurva, spadice superne longius masculiflora*.—*Willd. sp. pl. 4. p. 484.* *virginicum.*

Calla virginica. Mich. fl. amer. 2. p. 187.

In overflowed places on the banks of rivers, among *Scirpi* and *Junci*. $\frac{1}{4}$. June, July. v. v. Spatha long, involute, green.

2. *A. acaule; foliis subhastato-sagittatis, lobis oblongis, sagittifolium*. *spatha cucullata superne ovali, spadice longo a medio ad apicem masculiflora*.

Calla sagittifolia. Mich. fl. amer. 2. p. 167.

Caladium sagittifolium. Willd. sp. pl. 4. p. 489?

On the banks of rivers and old swamps: Pennsylvania to Carolina. $\frac{1}{4}$. July, Aug. v. v.

3. *A. acaule; foliis ternatis, foliolis ovatis acuminatis, spadice cylindrico spatha sessili ovata acuminata horizontaliter patentia altiore*.—*Willd. sp. pl. 4. p. 481.* *atrorubens.*

Icon. *Pluk. alm. t. 148. f. 6. bona.*

In swamps of Virginia and Maryland. $\frac{1}{4}$. May, June. v. v. Spatha dark brown, of a disagreeable smell.

4. *A. subcaulescens; foliis ternatis, foliolis ovatis acuminatis, spadice clavato spatha ovata acuminata plana pendulata dimidio breviore, floribus monoicis*.—*Willd. sp. pl. 4. p. 480.* *triphyllum.*

- α . *A. spatha virescente.*

Icon. *Pluk. analth. t. 376. f. 3.*

- β . *A. spatha atropurpurea.*

Icon. *Pluk. alm. t. 77. f. 5.*

In shady wet woods: Canada to Carolina. $\frac{1}{4}$. June,

virens.

atropurpureum.

July. *v. v.* Flowers handsomely green and yellow, or green and purple striped. Roots known as a medicine among the natives, particularly in colics: they are generally called *Indian Turnips*.

Dracontium. 5. *A. acaule*; foliis pedatis, foliolis lanceolato-oblongis integrifinis, spadice subulato spatha oblonga convoluta longiore.—*Willd. sp. pl. 4. p. 478.*

Icon. *Pluk. alm. t. 271. f. 2.*
In shady woods: Virginia to Florida. 24. June, July.
v. v.

XIII. DIDYNAMIA.

I. GYMNOSPERMIA.

* *Calyces subquinquefidi.*

471. AJUGA. *Cor.* labium superius minimum bidentatum.
Stamina labio superiore longiora.
472. TEUCRIUM. *Cor.* labium superius nullum, sed fisura ejus loco in qua *Stamina* jacent.
473. MENTHA. *Cor.* subæqualis, 4-fida : lacinia latiore emarginata. *Stam.* erecta, distantia.
474. ISANTHUS. *Cal.* campanulatus. *Cor.* 5-partita : tubo recto, angusto : lacinii ovatis æqualibus. *Stam.* subæqualia. *Stigm.* linearia, recurva.
475. CUNILA. *Cal.* cylindricus, 5-dentatus, fauce villosus. *Cor.* ringens : labio superiore erecto, piano, emarginato. *Stam.* 2. sterilia.
476. HYSSOPUS. *Cor.* labium inferius tripartitum, lacinula intermedia crenata. *Stam.* recta, distantia.
477. NEPETA. *Cal.* aridus, striatus. *Cor.* tubo longiusculo : labio inferioris lacinula intermedia crenata ; faux margine reflexo. *Stam.* approximata.
478. LAMIUM. *Cor.* labium superius integrum, forniciatum : labium inferius bilobum : faux utrinque margine dentata.
479. GALEOPSIS. *Cor.* labium superius subcrenatum, forniciatum : labium inferius supra 2-dentatum.
480. STACHYS. *Cor.* labium superius forniciatum : labium inferius lateralibus reflexum : lacinia intermedia majore emarginata. *Stam.* deflorata versus latera reflexa.
481. LEONURUS. *Cal.* 5-gonus, 5-dentatus. *Cor.* labium superius villosum, planum, integrum : inferius tripartitum, lacinia media indivisa.
482. GLECHOMA. *Cal.* 5-fidus. *Antherarum* singulum par in formam crucis connivens.

483. MARRUBIUM. *Cal.* hypocrateriformis, rigidus, 10-striatus. *Cor.* labium superius bifidum, lineare, rectum.
 484. HYPTIS. *Cal.* 5-dentatus, crescents. *Cor.* ringens : labium superius bifidum, inferius tripartitum, lacinia media sacculiformi. *Stam.* tubi ventri inserta, declinata.
 485. PYCNANTHEMUM. *Involucrum* multibracteatum, capitulis subjectum. *Cal.* tubulatus, striatus. *Cor.* labium superius subintegrum, inferius trifidum. *Stam.* subæqualia.

** *Calyces bilabiati.*

486. CLINOPODIUM. *Involucrum* multisetum, verticillo subjectum. *Cor.* labium superius planum, obcordatum, rectum.
 487. ORIGANUM. *Strobilus* tetragonos, spicatus, calyces colligens. *Cor.* labium superius erectum, planum : inferius tripartitum : lacinias æqualibus.
 488. DRACOCEPHALUM. *Cor.* faux inflata, labium superius concavum.
 489. PRUNELLÀ. *Cor.* labium superius dilatatum. *Filam.* bifurca : altero apice antherifera. *Stigm.* bifidum.
 490. SCUTELLARIA. *Cal.* ore integro, post florescentiam clauso, operculato. *Cor.* tubus elongatus.
 491. THYMUS. *Cal.* campanulatus, faux villis clausa. *Cor.* labium superius planum, emarginatum.
 492. CALAMINTHA. *Cal.* defloratus villis clausus. *Cor.* fauce inflata, labio supériore emarginato, inferiore tripartito : lacinia intermedia integra, subemarginata aut crenulata.
 493. HEDEOMA. *Cal.* basi gibbus. *Cor.* ringens. *Stam.* 2. sterilia.
 494. TRICHOSTEMA. *Cor.* labium superius falcatum. *Stam.* longissima.

II. ANGIOSPERMIA.

* *Calyces quinquefidi.*

495. LINNÆA. *Cal.* superus, duplex : fructus 2-phyllos ; floris 5-partitus. *Cor.* campanulata. *Bacca* secca, 3-locularis.
 496. PHRYMA. *Cal.* cylindricus, supra longior, trifidus, infra bidentatus. *Cor.* labium superius emarginatum, inferius majus. *Sem.* unicum.

497. VERBENA. *Cal.* 5-fidus. *Cor.* infundibuliformis, tubo incurvo, limbo inaequali, 5-fido. *Sem.* 2—4.
498. ZAPANIA. *Flor.* capitati. *Cal.* 5-dentatus. *Cor.* 5-fida. *Stam.* 4. fertilia. *Stigm.* peltato-capitatum, obliquum. *Fructus* tectus utricularis, evanescens, nectens semina 2.
499. CAPRARIA. *Cal.* 5-partitus. *Cor.* campanulata, 5-fida, acuta. *Caps.* 2-valvis, 2-locularis, polysperma.
500. HERPESTIS. *Cal.* inaequalis, basi 2-bracteatus. *Cor.* tubulosa, subbilabiata. *Stam.* inclusa. *Caps.* 2-valvis, 2-locularis, dissepimento valvis parallelo.
501. LINDERNIA. *Cal.* 5-partitus, æqualis. *Cor.* ringens, labio superiore brevissimo, inferiore 3-fido, basi bicarinata. *Anther.* per paria cohærentes. *Stigm.* bilamellatum. *Caps.* 2-locularis, 2-valvis, dissepimento valvis parallelo.
502. SCROPHULARIA. *Cal.* 5-fidus. *Cor.* subglobosa, resupinata. *Caps.* 2-locularis.
503. BIGNONIA. *Cul.* 5-fidus, cyathiformis. *Cor.* fauce campanulata, 5-fida, subtus ventricosa. *Siliqua* 2-locularis. *Sem.* membranaceo-alata.
504. RUELLIA. *Cal.* 5-partitus. *Cor.* subcampanulata, limbo 5-fido. *Stam.* conjugata. *Caps.* utrinque attenuata, dentibus elasticis dehiscens. *Sem.* pauca.
505. BUCHNERA. *Cal.* 5-dentatus. *Cor.* limbus 5-fidus, æqualis: lobis cordatis. *Caps.* 2-locularis.
506. ANTIRRHINUM. *Cal.* 5-phyllo. *Cor.* calcarata, ringens: rictu clauso palato prominente. *Caps.* 2-locularis, 2-valvis.
507. GERARDIA. *Cal.* 5-fidus. *Cor.* 2-labiata: labio inferiore 3-partito: lobis emarginatis: medio bipartito. *Caps.* 2-locularis, dehiscens.
508. PEDICULARIS. *Cal.* 5-fidus. *Cor.* ringens. *Caps.* 2-locularis, mucronata, obliqua. *Sem.* tunicata.
509. MIMULUS. *Cal.* prismaticus, 5-dentatus. *Cor.* ringens: labio superiore lateribus replicato. *Stigm.* crassum. *Caps.* 2-locularis, polysperma.
510. CHELONE. *Cal.* 5-partitus, 3-bracteatus. *Cor.* ringens, ventricosa. *Filam.* quintum sterile, cæteris brevius. *Caps.* 2-locularis, 2-valvis. *Sem.* plurima, margine membranacea.
511. PENTSTEMON. *Cal.* 5-phyllo. *Cor.* 2-labiata, ventricosa. *Filam.* quintum sterile, cæteris longius, superne barbatum. *Caps.* compressa, 2-locularis, 2-valvis. *Sem.* numerosa, subglobosa.

512. MARTYNIA. *Cal.* 5-fidus. *Cor.* ringens. *Caps.* lignosa, corticata, rostro hamato, 4-locularis, 2-valvis.

** *Calyces quadrifidi.*

513. SCHWALBEA. *Cal.* ventricoso-tubulosus, 4-fidus: lacinia superiore minima, infima maxima, emarginata. *Cor.* ringens. *Caps.* 2-locularis, 2-valvis: disseppimento duplicito. *Sem.* paleacea.

514. RHINANTHUS. *Cal.* ventricosus, 4-fidus. *Cor.* ringens: labio superiore compresso. *Caps.* 2-locularis, compressa, obtusa.

515. BARTSIA. *Cal.* 2-lobus, emarginatus, coloratus: *Cor.* minus ipso calyce: labio superiore longiore. *Caps.* 2-locularis. *Sem.* angulata.

516. EUPHRASIA. *Cal.* cylindricus, 4-fidus. *Cor.* bilabiata: labium superius 2-fidum, inferius 3-lobum: lacinias bifidis. *Anth.* inferiores lobis spinosis.

517. MELAMPYRUM. *Cal.* 4-fidus. *Cor.* labium superius compressum, margine replicato. *Caps.* 2-locularis, obliqua, hinc dehiscentia. *Sem.* 2. gibba.

*** *Calyces bifidi.*

518. OBOLARIA. *Cor.* campanulata, 4-fida. *Stam.* ex divisuris corollæ. *Caps.* 1-locularis, 2-valvis, polysperma.

519. OROBANCHE. *Cor.* ringens. *Caps.* 1-locularis, 2-valvis, polysperma. *Glandula* sub basi germinis.

I. G Y M N O S P E R M I A.

471. AJUGA. *Gen. pl.* 959.

- Chamæpithys.*
1. *A.* foliis trifidis, floribus axillaribus solitariis folio brevioribus, caule diffuso. *Willd.* sp. *pl.* 3. p. 10.
Teucrium Chamæpithys. *Sp. pl.* 787.
Icon. *Fl. dan.* 733. *Rivin.* t. 24.
 In sandy fields of Virginia. *Gronov.* ○. June, July.
v. s. in Herb. *Gronov.* Flowers pale yellow.

472. TEUCRIUM. *Gen. pl. 960.*

1. *T. cano-hirsutissimum*; foliis ovato-lanceolatis serratis, omnibus petiolatis, caule erecto, spicis verticillatis confertis, bracteis calyce duplo longioribus.—*Willd. sp. pl. 3. p. 22.*

canadense.

In low grounds, on the borders of ponds and lakes: Canada to New York. 4. July, Aug. v. v. Flowers purple.

2. *T. pubescens*; foliis ovato-oblongis serratis, superioribus subsessilibus, caule erecto, spicis verticillatis conferatis, bracteis longitudine calycis.—*Willd. sp. pl. 3. p. 22.*

virginicum.

Icon. *Schkuhr handb. 160.*

In low grounds and bogs: New York to Carolina. 4. June—Aug. v. v. Resembles the foregoing species very much.

473. MENTHA. *Gen. pl. 967.*

1. *M. floribus verticillatis*, foliis lanceolatis serratis petiolatis pilosis, staminibus corollam sequantibus. *Willd. sp. pl. 3. p. 82.*

canadensis.

In Canada. *Kalm. 4. +.*

2. *M. assurgens*, pubescens; foliis petiolatis ovali-lanceolatis utrinque acutissimis, floribus verticillatis, staminibus exertis.—*Mich. fl. amer. 2. p. 2.*

borealis.

On the banks of rivers and near springs: Canada to Pennsylvania. 4. July, Aug. v. v. Flowers pale purple.

3. *M. erecta*, glabriuscula; foliis lanceolato-ovatis subsessilibus, spica gracili, verticillis minimis interrupta, stamnibus non exertis.—*Mich. fl. amer. 2. p. 2.*

tenuis.

M. viridis. *Walt. fl. car. 161.*

In wet places, near springs: Pennsylvania to Georgia. 4. June—Aug. v. v. Flowers white.

474. ISANTHUS. *Mich. fl. amer. 2. p. 3.*

1. *I. viscido-pubescent*; foliis ovali-lanceolatis utrinque acutis 3-nervibus, pedunculis 1-2-floris. *Mich. fl. amer. 2. p. 4.*

caeruleus.

Icon. *Mich. fl. amer. 2. t. 30.*

On dry hills, in lime-stone soil: Virginia and Kentucky. 4. July, Aug. v. v. Flowers pale blue.

475. CUNILA. Gen. pl. 46.

mariana.

1. *C. foliis ovatis serratis sessilibus, corymbis terminalibus dichotomis.* — *Willd. sp. pl. 1. p. 122.*

Icon. Pluk. mant. t. 344. f. 1.

On dry shady hills: New York to Carolina. \mathcal{U} . June, July. *v. v.* Flowers red. The whole herb has an aromatic scent, and is used as tea in severe colds and other complaints, under the name of *Dittany*.

476. HYSSOPUS. Gen. pl. 963.

nepetoides.

1. *H. spicis verticillatis cylindricis, stylis corolla brevioribus, foliis subcordatis ovatis acuminatis acute dentatis.* — *Willd. sp. pl. 3. p. 48.*

Icon. Jacq. hort. 1. t. 69. Pluk. alm. t. 150. f. 3.

In fertile shady woods, along hedges: Pennsylvania to Virginia. \mathcal{U} . July, Aug. *v. v.* From three to five feet high; flowers in long close spikes, yellowish.

acrophulari-folius.

2. *H. spicis verticillatis cylindricis, stylis corolla longioribus, foliis cordatis ovatis acuminatis obtuse dentatis.* — *Willd. sp. pl. 3. p. 48.*

Agastache. Gronov. fl. virg. 88.

Icon. Herm. parad. t. 100.

In wet copses and on the banks of rivers: Pennsylvania to Virginia; rare. \mathcal{U} . July, Aug. *v. v.* Seldom above two feet high; flowers purple.

477. NEPETA. Gen. pl. 964.

Cataria.

1. *N. floribus spicatis, verticillis subpedicellatis, foliis petiolatis cordatis dentato-serratis.* *Willd. sp. pl. 3. p. 49.*

Icon. Fl. dan. 580. Schkuhr handb. 157.

On road sides and in cultivated grounds: frequent. \mathcal{U} . July, Aug. *v. v.* Flowers white. Common *Cat-nep*, so well known as a domestic medicine, has probably been introduced from Europe.

478. LAMIUM. Gen. pl. 971.

amplexicaule. 1. *L. foliis floralibus sessilibus amplexicaulis obtusis.*

Willd. sp. pl. 3. p. 90.

Pellicchia amplexicaulis. Roth germ. 1. p. 254.

Icon. Fl. dan. 752. Schkuhr handb. 159.

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In cultivated grounds, common ; probably introduced.
O. May—Aug. v. v. Flowers purple.

2. L. caule hispido, foliis longe petiolatis lato-cordatis pubescentibus, axillulis unifloris.—*Mich. fl. amer. 2. p. 4.*
In shady woods of Tennessee. *Michaux.* +. Flowers large, white. *hispidulum.*

479. GALEOPSIS. *Gen. pl. 972.*

1. G. intermodii caulinis superne incrassatis, verticillis summis subcontiguis, calycibus pungentibus, corollis calyce parum longioribus, caule hirsuto. *Willd. sp. pl. 3. p. 92.*
Icon. Engl. bot. 207.
On road sides, in the western parts of Pennsylvania. O. July, Aug. v. v. Flowers white, with purple spots. *Tetrahit.*

480. STACHYS. *Gen. pl. 974.*

1. S. glabriuscula, gracilis, erecta ; foliis sessilibus linearilanceolatis rariter subdentatis, verticillis subquadrifloris.—*Mich. fl. amer. 2. p. 4.*
S. palustris. *Walt. fl. car. 162.*
In Carolina. *Michaux.* +.
2. S. caulis erectis, retrosum hispidissimis, foliis subpetiolatis lanceolatis acute serratis glaberrimis, verticillis subsexfloris, calycibus divaricato-spinescentibus.—*Mich. fl. amer. 2. p. 5.*
S. tenuifolia. *Willd. sp. pl. 3. p. 100.*
S. arvensis. *Walt. fl. car. 162.*
In low fields and on the banks of rivers : New York to Virginia. 4. June—Aug. v. v. Resembles *S. pauciflora* ; flowers purple.
3. S. caule foliisque hispido-pilosus ; foliis petiolatis ovato-oblongis obtuse-serratis, verticillis subsexfloris, calycibus glabriusculis.
Galeopsis floris galea rubente, &c. Gron. fl. virg. n. 271.
In old fields and low pastures : Virginia to Carolina. 4.
July. v. v. Flowers purple. Gronovius's synonym has been placed under *S. annua*, from which it is widely different, as his specimen in the Banksian Museum sufficiently demonstrates.
4. S. erecta, pubescens ; foliis cordato-ovatis dentatis, supra glabris subtus albicanibus tomentosis, verticillis subsexfloris. *hispida* *Foeniculum.*

On the banks of the Missouri. ♂. July. v. s. Flowers blue. The whole of this plant has a scent extremely like that of fennel.

481. *LEONURUS.* *Gen. pl. 977.**Cardiacs.*

1. *L. foliis cuneiformi-ovatis trilobis dentatis, corollis calyce pungente majoribus, lacinia media labii inferioris acuta.* — *Willd. sp. pl. 3. p. 114.*
Icon. Fl. dan. 727. Engl. bot. 286.
 In old fields and hedges : Pennsylvania to Virginia ; probably introduced from Europe. ♀. July, Aug. v. v. Flowers white, mixed with red.

482. *GLECHOMA.* *Gen. pl. 970.**hederacea.*

1. *G. foliis reniformibus crenatis.* — *Willd. sp. pl. 3. p. 85.*
Icon. Fl. dan. 789. Curt. lend. 2. t. 44.
 In orchards and on grassy hills : Pennsylvania to Virginia.
 ♀. May, June. v. v. Flowers handsome, blue.

483. *MARRUBIUM.* *Gen. pl. 976.**vulgare.*

1. *M. foliis subrotundo-ovatis dentatis rugoso-venosis, calycibus dentibus setaceis uncinatis.* — *Willd. sp. pl. 3. p. 111.*
Icon. Fl. dan. 1036. Engl. bot. 410.
 On road sides ; frequent. ♀. July, Aug. v. v. Flowers small, white.

484. *HYPTIS.* *Gen. pl. 969.**capitata.*

1. *H. capitulis oppositis, pedunculo internodiis longitudine, bracteis lanceolatis calyce frugifero brevioribus, foliis oblongis utrinque attenuatis inaequaliter serratis.* — *Willd. sp. pl. 3. p. 84. Poiteau in annal. du mus. 7. p. 464.*
Clinopodium capitatum. Swartz. prodr. 88.
Icon. Jacq. ic. rar. t. 114. Annal. du mus. 7. t. 27. f. 1.
 In Lower Carolina. *Michaux.* ♀. July, Aug. v. v. Flowers white.

radiata.

2. *H. capitulis oppositis, pedunculo internodiis longitudine, bracteis lanceolatis calyce frugifero longioribus, foliis oblongis serratis.* — *Willd. sp. pl. 3. p. 84. Poiteau in annal. du mus. 7. p. 466.*

Clinopodium rugosum. Sp. pl. 822.
 Icon. Dill. elth. t. 75. f. 86. Annal. du mus. 7. t. 27.
 f. 2
 In Lower Carolina. 24. +.

483. PYCNANTHEMUM. Mich. fl. amer. 2. p. 7.
Brachystemum. Mich. fl. amer. 2. p. 8.

* *Staminibus exsertis.*

1. P. foliis oblongo-ovatis acutis subserratis cano-tomentosis, capitulis compositis, lateralibus pedunculatis, bracteis setaceis.—*Mich. fl. amer. 2. p. 7.*

incanum.

Clinopodium incanum. Willd. sp. pl. 3. p. 132.

Icon. Dill. elth. t. 74. f. 85. Pluk. mant. t. 344. f. 7.
 In low fields and copses: New York to Carolina. 24.
 July—Oct. v. v. About three feet high; flowers white, tinged with red.

2. P. foliis lanceolato-ovatis subserratis brevissime petiolatis subcandicantibus, capitulis sessilibus, bracteis aristatis.—*Mich. fl. amer. 2. p. 8.*

aristatum,

Nepeta virginica. Willd. sp. pl. 3. p. 56.

Icon. Mich. fl. amer. 2. t. 33. Pluk. atm. t. 85. f. 2.
 In dry woods, in lime-stone soil: Maryland to Carolina.
 24. July, Aug. v. v. Flowers white, very small.

3. P. foliis ovali-lanceolatis serratis subsessilibus, capitulo sessili, calycibus approximatis erectis breviter dentatis.—*Mich. fl. amer. 2. p. 8.*

montanum.

On high mountains of Carolina. *Michaux.* 24. +.
 Stem and leaves tinged with purple.

4. P. hirsutum; foliis abrupte petiolatis subcordato-ovalibus serratis, bracteis magnis coloratis, bracteolis ciliatis, calycibus summitate barbatis.—*Mich. fl. amer. 2. p. 8.*

Monardella.

Origanum incanum. Walt. fl. car. 163.

Icon. Mich. fl. amer. 2. t. 34.

On the mountains of Virginia and Carolina. 24. June—Aug. v. v. Flowers small, pale red.

5. P. caule stricto ramosissimo asperiusculo, foliis linearibus 3-nervibus integrerrimis, capitulis terminalibus fasciculato-corymbosis.

knifolium.

Brachystemum virginicum. Mich. fl. amer. 2. p. 6.

Brachystemum linifolium. Willd. enum. 623.

Thymus virginicus. Willd. sp. pl. 3. p. 145.

DIDYNAMIA GYMNOSPERMIA. Pycoanthemum.

Satureja virginiana. *Sp. pl.* 2. p. 793.

Origanum flexuosum. *Walt. fl. car.* 165.

Icon. *Herm. parad.* t. 218. *Pluk. alm.* t. 54. f. 2.

In dry swamps and mountain meadows: New England to Carolina. ♀. July, Aug. v. v. Flowers very small, entirely white. This and the following species approach so near to the genus *Westringia*, that they almost ought to be added to that genus.

** *Staminibus inclusis.*

lanceolatum. 6. P. caule stricto ramosissimo asperiusculo, foliis linearilanceolatis venosis integerrimis, capitulis terminalibus fasciculato-corymbosis.

Brachystemum lanceolatum. *Willd. enum.* 623.

In dry swamps and on the banks of rivers: Pennsylvania to Virginia. ♀. July, Aug. v. v. Resembles the foregoing species very much; flowers white; the lower lip of the corolla has purple dots.

muticum. 7: P. foliis ovato-lanceolatis subdentatis glabriusculis, capitulis terminalibus, bracteis lanceolatis acutiusculis.—*Pers. syn.* 2. p. 128.

Brachystemum muticum. *Mich. fl. amer.* 2. p. 6.

Icon. *Mich. fl. amer.* 2. t. 32.

In Upper Carolina. *Michaux.* ♀. +.

verticillatum. 8. P. foliis ovato-lanceolatis integerrimis, verticillis sessilibus compactis, bracteis acuminatis.—*Pers. syn.* 2. p. 128.

Brachystemum verticillatum. *Mich. fl. amer.* 2. p. 6.

Origanum clinopodioides. *Walt. fl. car.* 165.

Icon. *Mich. fl. amer.* 2. t. 31.

In the mountains: Pennsylvania to Carolina. ♀. July, Aug. v. v.

486. CLINOPODIUM. *Gen. pl.* 980.

vulgare. 1. C. capitulis verticillatis, bracteis setaceis hispidis, foliis asperne pilosis remote dentatis, caule subsimplici. *Willd. sp. pl.* 3. p. 131.

Icon. *Fl. dan.* 930. *Engl. bot.* 1401.

In dry stony fields and woods: Canada to Virginia. ♀. July, Aug. Flowers pale purple or rose-coloured.

487. ORIGANUM. *Gen. pl. 981.*

1. *O. spicis subrotundis paniculatis conglomeratis, bracteis calyce longioribus ovatis.* *Willd. sp. pl. 3. p. 135.* *vulgare.*
 Icon. *Fl. dan. 638.*
 In dry stony fields and woods: Pennsylvania to Virginia.
 Ʌ. July, Aug. v. v. Flowers pale red.

488. DRACOCEPHALUM. *Gen. pl. 984.*

1. *D. spicis brevibus tetragonis, bracteis ovatis acutis, calycis dentibus inaequalibus, foliis arcte sessilibus ovalioblongis superne denticulatis.* *Vent. hort. cels t. 44.* *variegatum.*
Prasium incarnatum. *Walt. fl. car. 165.*
 In Lower Carolina. Ʌ. Aug. Sept. v. v. Flowers blueish-red, with white stripes, very ornamental.
2. *D. spicis elongatis confertifloris, bracteis subulatis, calycis dentibus brevibus subaequalibus, foliis linearilanceolatis serratis.* *—Willd. sp. pl. 3. p. 149.* *virginianum.*
 Icon. *Bot. mag. 467.* *Rob. ic. 207.*
 In mountain meadows: Virginia and Carolina. Ʌ.
 July—Sept. v. v. Flowers reddish-purple. There is a taller variety with dark purple flowers.
3. *D. spicis elongatis remotifloris, bracteis subulatis, calycis dentibus subaequalibus, foliis obovato-lanceolatis superne denticulatis.* *—Willd. sp. pl. 3. p. 150.* *denticulatum.*
Prasium purpureum. *Walt. fl. car. 166.*
 Icon. *Bot. mag. 214.*
 In the mountains of Virginia and Carolina. Ʌ. July—
 Sept. v. v. Resembles the former very much; it is always smaller in size, and weakly in stem.

489. PRUNELLA. *Gen. pl. 990.*

1. *P. foliis petiolatis oblongo-ovatis basi dentatis, calycis labiis inaequalibus, superiore truncato aristato, caule adscendente.* *—Willd. sp. pl. 3. p. 176.* *vulgaris.*
 Icon: *Fl. dan. 910.* *Engl. bot. 961.*
 In fields and meadows: New England to Carolina. Ʌ.
 July, Aug. v. v. Flowers violet purple.
2. *P. foliis petiolatis ovato-lanceolatis basi dentatis, calycis labiis aequalibus, superiore truncato triaristato, caule adscendente.* *Willd. hort. berol. p. 9. t. 9.* *penylvanica.*

P. laciniata. *Walt. Fl. car.* 163.

P. sylvestris autumnalis, &c. *Gron. fl. virg.* 91.

In woods and meadows: Pennsylvania to Carolina. ♂.

July, Aug. v. v. Resembles the foregoing species; the spikes are longer, and the flowers pale blue.

490. SCUTELLARIA. *Gen. pl.* 989.

lateriflora.

1. *S. ramosissima*, glabriuscula; foliis longissime petiolatis ovatis dentatis, caulinis subcordatis, racemis lateraliibus foliosis.—*Willd. sp. pl.* 3. p. 172.

On the side of ditches and ponds: Canada to Carolina. ♀. July—Sept. v. v. Flowers blue, small.

nervosa.

2. *S. simpliciuscula*, glabra; foliis sessilibus ovatis dentatis nervosis, racemo terminali laxo folioso.

On the banks of rivulets: Virginia. ♀. July, Aug. v. v. Flowers, as the most of this genus, blue, larger than the foregoing species.

galericulata.

3. *S. simpliciuscula*, glabra; foliis subsessilibus ovato-lanceolatis basi subcordatis crenatis, floribus axillaribus solitariis.—*Willd. sp. pl.* 3. p. 173.

Icon. Fl. dan. 637. *Engl. bot.* 523.

In Canada and in the salt-marshes of Onondago, New York. ♀. July, Aug. v. v. Flowers large, pale blue.

angustifolia.

4. *S. simplex*, tenuissime pubescens; foliis linearibus, floribus axillaribus oppositis, genitalibus subexsertis.

On the river Kooskoosky. *M. Lewis.* ♀. June. v. s. in *Herb. Lewis.*

parvula.

5. *S. simplex*, pusilla, dense pubescens; foliis sessilibus ovatis integerrimis, omnibus conformibus, floribus axillaribus solitariis.—*Mich. fl. amer.* 2. p. 11.

In Canada and the Illinois country. *Michaux.* On banks of rivers in Virginia. *Ph.* ♂. June, July. v. v. Not above two inches high; flowers small, pale blue.

caroliniana.

6. *S. ramosa*, glaberrima; foliis petiolatis lineari-lanceolatis acutis integerrimis, racemis laxis foliosis, calycibus obtusis.—*Lam. encycl.* 7. p. 706.

Icon. Lam. illustr. t. 515. f. 3.

In Carolina. *Fraser.* ♀. +.

integrifolia.

7. *S. simpliciuscula*, dense pubescens; foliis subsessilibus oblongis linearibusve obtusis integerrimis basi attenuatis, racemis laxiusculis foliosis.—*Willd. sp. pl.* 3. p. 173.

Icon. *Plak. alm.* 441. f. 6.

8. foliis omnibus linearibus.—*Willd. sp. pl.* 3. p. 174. *hyssopifolia.*

On dry hills, in rich soil : New York to Carolina. $\frac{1}{2}$.

July—Sept. v. v. Flowers large, handsome blue. This species is very variable, in size and figure of leaves, simple and branched stems, &c.

8. *S. ramosa*, elata, pubescens ; foliis ovatis acuminatis serratis breviter petiolatis, racemis terminalibus laxiusculis plerumque paniculatis, bracteis lanceolatis brevibus.—*Bot. rep.* 494.

S. integrifolia. Auctorum.

In fields and meadows : Virginia and Carolina. $\frac{1}{2}$. July—Sept. v. v. The tallest species ; flowers large and handsome.

9. *S. simpliciuscula*, pubescens ; foliis remotis rhomboideo-ovatis obtusis rotundato-crenatis basi attenuatis, petiolis brevibus, racemis terminalibus laxis plerumque ramosis, bracteis lanceolatis integris.—*Mich. fl. amer.* 2. p. 11.

S. ovalifolia. Pers. syn. 2. p. 136?

S. caroliniana. Walt. fl. car. 163.

Icon. *Plak. alm.* t. 318. f. 4.

In shady woods : Virginia and Carolina. $\frac{1}{2}$. July, Aug. v. v. Resembles the foregoing one ; it is a smaller plant, with only a few leaves.

491. THYMUS. *Gen. pl.* 982.

1. *T. floribus capitatis, caulibus repentibus, foliis planis obtusis basi ciliatis.* *Willd. sp. pl.* 3. p. 138. *Serpyllum.*

Icon. *Engl. bot.* 1514. *Schkahr handb.* 144.

Common *Thyme* occurs frequently in an apparently wild state, particularly on the commons near Philadelphia. $\frac{1}{2}$. h. July, Aug. v. v. Flowers purple.

492. CALAMINTHA. *Tourn. inst.* 193.

1. *C. pubescens, ramosissima ; foliis ovatis obtusis subseratis, verticillis pedunculatis dichotomo-corymbosis folio longioribus, villis calycinis prominentibus.*

Nepeta.

Melissa Nepeta. Willd. sp. pl. 3. p. 147.

Thymus Nepeta. Smith fl. brit. 2. p. 642.

Icon. *Engl. bot.* 1414. *Curt. Lond.* 6. t. 40.

In lime-stone soil, on dry barren hills: Virginia. 2.
June, July. Flowers white, tinged with red.

- grandiflora.* 2. C. erecto-cespitosa; foliis rhomboideo-ovalibus superne obsolete dentatis glabriusculis, verticillis subpedunculatis subdecemfloris folio brevioribus, villis calycinis inclusis.

Thymus grandiflorus. *Bot. mag.* 997.

Thymus carolinianus. *Mich. fl. amer.* 2. p. 9.

Thymbra caroliniana. *Walt. fl. car.* 162.

On the banks of the river Savannah, in Georgia and Carolina. 2. 2. July, Aug. v. v. Flowers large, pale purple.

493. HEDEOMA. *Pers. syn.* 2. p. 131.

- glabra.* 1. H. erecta, glabra; foliis inferioribus oblongis, superioribus lanceolatis remote serratis, pedunculis terminalibus ternis.—*Pers. syn.* 2. p. 131.

Cunila glabella. *Mich. fl. amer.* 1. p. 13.

On rocks on the river Tennessee, near Nashville, 2. +.

- pulegioides,* 2. H. pubescens; foliis oblongis serratis, pedunculis axillaribus verticillatis, calycis labio inferiore biseto, setis ciliatis.—*Pers. syn.* 2. p. 131.

Cunila pulegioides. *Willd. sp. pl.* 1. p. 122.

In fields and on dry hills: Canada to Carolina. 2. June, July. v. v. A small plant; flowers small, pale blue.

- bispida.* 3. H. ramosa, undique hispido-pilosa; foliis linearibus nervosis margine revoluto integerrimis, verticillis subquadrifloris, calycibus hispidissimis laciniis subulatis.

On the banks of the Missouri. 2. June, July. v. s.

Not above two inches high; flowers very small.

494. TRICHOSTEMA. *Gen. pl.* 988.

- dichotoma.* 1. T. foliis rhomboideo-lanceolatis, ramulis floriferis bifurcatis, staminibus longissimis.—*Willd. sp. pl.* 3. p. 170.

- linearis.* β. T. foliis linearibus. *Walt. fl. car.* 164.
In fields and on sunny hills: Pennsylvania to Carolina. 2. June—Aug. v. v. Flowers large, fine blue; the whole plant has an agreeable resinous scent.

2. T. foliis ovato-lanceolatis, ramulis floriferis oppositis paniculatis, staminibus brevibus inclusis.—*Willd. sp. pl. 3. p. 170.*
 Icon. *Dill. elth t. 285. f. 369.*
 In Virginia. *Dillen. O. v. s. in Herb. Banks.* Flowers blue.
-
- brachiata.*

II. ANGIOSPERMIA.

495. LINNÆA. Gen. pl. 1037.

1. L. caule prostrato, ramulis floriferis erectis bifloris, foliis subrotundis antice crenatis.—*Willd. sp. pl. 3. p. 340.*
 Icon. *Fl. dan. 3. Engl. bot. 433. Fl. lapp. t. 12. f. 4.*
 In old fir-woods of Canada and New England, and on the mountains of New York and Pennsylvania. Plentifully in the woods near Wiscasset, Province of Main, and near the White Lake, on the mountains of New Jersey. $\frac{1}{2}$. $\frac{1}{2}$. May, June. v. v. Flowers white, tinged with red. This interesting and handsome little plant will for ever be the admiration of the botanist, should it even be only for the sake of its name.

496. PHRYMA. Gen. pl. 994.

1. P. foliis ovatis grosse serratis petiolatis, spicis terminalibus gracilibus, floribus oppositis.—*Willd. sp. pl. 3. p. 179.*
 Icon. *Pluk. amalh. t. 380. f. 5. Lam. illustr. t. 516.*
 In shady, rocky woods: Canada to Carolina. $\frac{1}{2}$. June—Aug. v. v. Flowers small, white with purple.—Walter in his *Flora Caroliniana* has another species which he calls *P. caroliniana*, foliis sessilibus obovato-oblongis serratis scabris, spica terminali. Of this plant I was not able to find any information in his Herbarium, and strongly suspect he means *Salvia urticifolia* by it.

497. VERBENA. Gen. pl. 43.

* *Foliis laciniatis.*

1. V. assurgens; spicis solitariis pedunculatis imbricatis, corollarum laciniis emarginatis, foliis ovalibus inciso-serratis petiolatis.—*Willd. sp. pl. 1. p. 119.*

Aubletia.

- V. longiflora. Lam. illustr. 1. p. 57.*
Buchnera canadensis. Linn. mant. 88.
Glandularia carolinensis. Gmel. syst. nat. 2. p. 920.
Anonymos carolinensis. Walt. fl. car. 164.
Icon. Jacq. hort. 2. t. 176. Roxier journ. d'hist. nat. 1. t. 2.
 In Carolina and Georgia. ♂. June, July. v. v. Flowers large, of a beautiful purple.
- bracteosa.* 2. *V. pumila, decumbens, hirsutissima ; foliis laciniatis, spica floribus subimbricata, bracteis linearibus longissimis et undique patentibus squarrosa. Mich. fl. amer. 2. p. 13.*
Zapania bracteosa. Lam. encycl. 8. p. 843.
 In Illinois and Kentucky. ♀. July. v. s. in Herb. Lyon. Flowers light purple.
- spuria.* 3. *V. caule decumbente ramosissimo divaricato, foliis multifido-laciniatis, spicis filiformibus, bracteis calyces superantibus.—Willd. sp. pl. 1. p. 119.*
 On slate-hills and lime-stone rocks : Illinois, Virginia and Kentucky. ♂. July, Aug. v. v. Flowers very small, blue.
- hastata.* 4. *V. erecta, elatior ; foliis lanceolatis acuminatis inciso-serratis nonnullis inciso-hastatis, spicis linearibus paniculatis subimbricatis.—Willd. sp. pl. 1. p. 118.*
Icon. Herm. parad. 242.
- pinnatifida.* 5. *V. foliis inciso-pinnatifidis grosse serratis. Lam. illustr. 1. p. 57.*
 On road sides, in wet soil, and on the banks of rivers : Canada to Carolina. ♀. July, Aug. v. v. From two to five feet high ; flowers purple, sometimes white.

** *Foliis integris.*

- paniculata.* 5. *V. erecta, scabriuscula ; foliis lanceolatis grosse serratis indivisis, spicis filiformibus imbricatis corymboso-paniculatis.—Lam. encycl. 8. p. 548.*
 On the natural meadows of the high mountains of Virginia and Carolina. ♀. July, Aug. v. v. From four to six feet high ; flowers very numerous, purple.
- verticifolia.* 6. *V. erecta, subpubescens ; foliis ovatis acutis serratis petiolatis, spicis filiformibus distinctifloris axillaribus terminalibusque.—Willd. sp. pl. 1. p. 119.*
Icon. Riv. monop. 57. Rob. ic. 26.
 On road sides and cultivated grounds : New England to

Carolina. ♀. June—Sept. v. v. Flowers very small, white.

7. *V. erecta, ramosissima*; foliis ovato-lanceolatis serratis subpubescentibus, spicis longissimis laxis paniculatis valde diffusis.—*Lam. encycl. 8. p. 550.*

diffusa.

In North America. *Lamarch.* ♀. h. +. Flowers very small, somewhat purple. This species has a very near resemblance to the foregoing.

8. *V. humilis, erecta*; foliis linear-lanceolatis basi attenuatis rarer serratis lineato-venosis, spicis filiformibus solitariis terminalibus axillaribus usque.—*Willd. enum. 633.*

rugosa.

V. angustifolia. *Mich. fl. amer. 2. p. 14.*

In dry soil, on road sides, particularly in lime-stone soil: Pennsylvania to Tennessee. ♀. June—Aug. v. v. Not above a foot high; flowers fine blue.

9. *V. erecta, scabra*; foliis oblongo-ovalibus obtusis insequilater serratis basi attenuatis subeasilibus, spicis longissimis filiformibus distinctifloris.—*Willd. sp. pl. 1. p. 119.*

Icon. *Dill. ethn. t. 301. f. 388.*

In dry sandy fields: Carolina to Georgia. ♀. June, July. v. s. Flowers pale red.

caroliniana.

10. *V. hirsuta, albicans*; caulis rigide erectis, foliis sessilibus obovalibus serratis subtomentoso-hirsutissimis, spicis strictis imbricatis subfasciculatis.—*Willd. enum. 633.* *Vent. hort. cel's p. 53.* cum icone.

stricta.

V. rigens. *Mich. fl. amer. 2. p. 14.*

In Carolina and the Illinois country. ♀. July, Aug. v. s. in *Herb. Lambert.*

498. ZAPANIA. *Lam. illustr. 1. p. 58.*

1. *Z. foliis ovato-cuneiformibus superne serratis, spicis capitato-conicis solitariis elongato-pedunculatis, canule herbaceo repente.*—*Lam. illustr. 1. p. 59.*

nodiflora.

Verbena nodiflora. *Willd. sp. pl. 1. p. 117.*

Lippia nodiflora. *Mich. fl. amer. 2. p. 15.*

Blaria nodiflora. *Gaert. de fruct. et sem. 1. p. 266. t. 56.*

Icon. *Lam. illustr. 1. t. 17. f. 3.* *Rob. ic. 30.*

On the coast of Virginia and Carolina, and on the banks of the Ohio. ♀. July, Aug. v. v. Flowers white, small.

2. *Z. foliis linear-lanceolatis argute serratis, spicis capitato-*

lanceolata.

*conicis solitariis elongato-pedunculatis, caule herbaceo
repente. — Pers. syn. 2. p. 140.*
Lippia lanceolata. Mich. fl. amer. 2. p. 15.
 In Carolina and Georgia, on the banks of rivers. ¼.
 July, Aug. v. v. Flowers white.

499. CAPRARIA. Gen. pl. 1030.

- multifida.* 1. *C. erecta, viscido-pubescent; foliis superioribus terno-vorticillatis multifidis, pedicellis solitariis.—Mich. fl. amer. 2. p. 22. t. 36.*
 On the banks of rivers, in the western parts of the settlements, particularly on the Missouri and Mississippi. ①. July, Aug. v. s. Flowers small, greenish-white.

500. HERPESTIS. Gært. carp. 3. p. 187. t. 214.

Monnieria. Mich. fl. amer. 2. p. 22.

- rotundifolia.* 1. *H. minutum pubescens; foliis subovali-orbiculatis multinervibus, pedunculis passim oppositis folia subæquantibus.*
 Monnieria rotundifolia. Mich. fl. amer. 2. p. 22.
 On overflowed banks of rivers, in the Illinois and other western parts. ¼. July, Aug. v. s. Flowers pale blue, small.
- amplexicaulis.* 2. *H. caulibus lanatis, foliis breviter cordato-ovalibus amplexicaulibus integris obtusis, pedunculis folio breviribus.*
 Monnieria amplexicaulis. Mich. fl. amer. 2. p. 22.
 In ponds and ditches : Carolina and Georgia. ¼. June —Aug. v. v. Flowers blue, larger than the other species.
- cuneifolia.* 3. *H. glaberrima; foliis cuneato-ovalibus superne obsolete subcrenatis, pedunculis folia subæquantibus.*
 Monnieria cuneifolia. Mich. fl. amer. 2. p. 22.
 On the overflowed banks of rivers, near the sea-shore : Pennsylvania to Carolina. ¼. Aug. v. v. Leaves thick ; flowers very small, pale blue.
- micrantha:* 4. *H. glabra, succulenta; foliis arcte sessilibus ovalibus obtusis integrerrimis striato-nervosis, pedunculis folio brevioribus, calyce 5-phyllo, stylo bifido.*
Gratiola repens. Willd. sp. pl. 1. p. 103?
Icon. Swartz. ic. t. 33.

On the banks of rivers, to the edge of low water mark : Pennsylvania to Virginia. ♂. July, Aug. v. v. Flowers very small, white. It approaches near to *Lindernia*.

501. LINDERNIA. *Gen. pl.* 1031.

1. *L. glaberrima*; foliis oblongo-ovatis obsolete dentatis sessilibus, pedunculis axillaribus unifloris, corollis calyce duplo longioribus, capsulis calyce brevioribus.—*Willd. sp. pl.* 3. p. 325?
Gratiola inaequalis. *Walt. fl. car.* 61.
Gratiola anagalloidea. *Mich. fl. amer.* 1. p. 6.
Gratiola floribus pedunculatis, foliis ovatis crenatis. *Gron. fl. virg.* 3.
 2. *L. foliis repando-dentatis, pedunculis brevibus*.
 On the banks of ponds and rivers, in gravelly soil : New York to Virginia. ♂. July, Aug. v. v. Flowers blue. The European plant, figured by Schkuhr and Kricker, seems to be a very different species from the present one, as the corolla is shorter than the calyx.

502. SCROPHULARIA. *Gen. pl.* 1014.

1. *S. foliis cordatis serratis acutis basi rotundatis, petiolis inferne ciliatis, paniculae fasciculis laxe paucifloris*.—*Willd. sp. pl.* 3. p. 269.
S. nodosa β. *americana*. *Mich. fl. amer.* 2. p. 21.
 In low grounds : Pennsylvania to Carolina. ♀. June—Aug. v. v. Flowers greenish-brown. The plant often more than four feet high.
 2. *S. foliis lanceolatis inaequaliter serratis acuminatis basi acutis, petiolis nudis, paniculae fasciculis corymbosis*.
 In wet meadows and woods : Pennsylvania. ♀. Aug. Sept. v. v. Flowers greenish-yellow.

503. BIGNONIA. *Gen. pl.* 1018.

1. *B. foliis conjugatis cirrhosis, inferioribus ternatis, foliolis ovato-cordatis acuminatis, racemis axillaribus, caule muricato*.—*Willd. sp. pl.* 3. p. 296.
 Icon. *Plum. ic. t.* 58.
 In shady woods : Carolina to Florida. ♀. June, July. v. v. Flowers yellowish-scarlet.
 2. *B. foliis conjugatis cirrhosis, foliolis oblongis basi subcordatis, imis simplicibus*.—*Willd. sp. pl.* 3. p. 297.

DIDYTHAMIA ANGIOSPERMIA. Bignonia.

Icon. Bot. mag. 864. Jacq. hort. schœnbr. 363.

In shady woods, on the banks of rivers and lakes : Virginia to Florida. $\frac{1}{2}$. July, Aug. v. v. Flowers scarlet.

radicans. 3. B. foliis pinnatis, foliolis ovatis dentatis apuminatis, cymbo terminali, tubo corollæ calyce triplo longiore, caule radicante.—Willd. sp. pl. 3. p. 301.

Tecoma radicans. Juss.

flammea. 4. B. floribus luteo-coccineis.

Icon. Schmidt arb. t. 42.

coccinea. 5. B. floribus coccineis.

Icon. Schmidt arb. t. 43 & 44. Bot. mag. 485. Catesb. car. 1. t. 65.

On the banks of rivers : Pennsylvania to Florida. $\frac{1}{2}$. July, Aug. v. v. This highly ornamental creeper ascends the tallest trees and highest rocks, and with its large scarlet flowers produces one of the most pleasing effects in ornamental gardening.

504. RUELLIA. Gen. pl. 1050.

streptens. 1. R. erecta, hirsuta ; foliis petiolatis lanceolato-ovatis integrerimis, pedunculis 1—3-floris, calycis laciniis lanceolatis hispidis tubo corollæ duplo brevioribus.—Willd. sp. pl. 3. p. 363.

Icon. Schkuhr handb. 177. Dill. elth. t. 249. f. 321.

On dry hills, in shady woods : Virginia to Carolina. $\frac{1}{2}$. June, July. v. v. Flowers large, pale blue, as are all the following.

oblongifolia. 2. R. assurgens, dense pubescens ; foliis subsessilibus ob-ovato-oblongis, floribus solitariis, bracteis longitudine calycis, calycis laciniis filiformibus longitudine tubi corollæ.—Mich. fl. amer. 2. p. 23.

R. biflora. Willd. sp. pl. 3. p. 368 ?

In sandy pine-woods : Georgia. $\frac{1}{2}$. June, July. v. s. Flowers yellowish-blue.

hybrida. 3. R. erecta, ramosissima, pilis albidis hirsuta ; foliis subsessilibus oblongis utrinque subacutis dense hirsutis, bracteis calyce brevioribus, calycis laciniis linearibus tubo corollæ vix brevioribus.

In sandy fields near Savannah, Georgia. $\frac{1}{2}$. July. v. s. in Herb. Enslen.

ciliosa. 4. R. erecta, ramosa ; foliis subsessilibus ovato-oblongis margine nervis venisque pilis albis longe ciliatis, brac-

teis lanceolatis brevibus, calycis laciniis subulatis tubo corollae quadruplo brevioribus.

Near Savannah, Georgia. 4. July. v. s. in Herb. Enslen.

5. R. glabriuscula, diffusa, radicans; foliis in petiolatum longiuscule angustatis ovalibus obtusis, floribus subsessilibus, capsulis linearibus. Mich. fl. amer. 2. p. 23.

In Georgia and Florida. Michaux. +.

hemistrepta.

505. BUCHNERA. Gen. pl. 1035.

1. B. caule simplici, foliis lanceolatis subdentatis asperis trinervibus, spicis remotifloris.—Willd. sp. pl. 3. p. 334.

americana.

On dry sandy hills: Pennsylvania to Carolina; rare. 4. July. v. v. Flowers deep blue.

506. ANTIRRHINUM. Gen. pl. 1007.

1. A. procumbens, pilosum; foliis alternis hastatis integerimis, pedunculis solitariis longissimis.—Willd. sp. pl. 3. p. 234.

Elatine.

Icon. Fl. dan. 426. Engl. bot. 692.

In sandy fields: Pennsylvania to Virginia. ①. July, Aug. v. v. Flowers yellow mixed with purple.

2. A. erectum, glabrum; foliis sparsis lanceolato-linearibus confertis, spicis terminalibus densifloris, calycibus glabris calcare brevioribus.—Willd. sp. pl. 3. p. 253.

Linaria.

Icon. Fl. dan. 982. Engl. bot. 658.

In fields and dry hills, near houses; frequent. 4. June—Aug. v. v. Flowers large, yellow. This fine-looking plant is one of the worst and most troublesome weeds in several parts of Pennsylvania and Virginia.

3. A. assurgens, glabrum, simplicissimum; foliis sparsis erectis angusto-linearibus obtusis remotis, floribus racemosis, stolonibus procumbentibus.—Willd. sp. pl. 3. p. 255.

canadense.

Icon. Vent. hort. cels 49.

In low grounds: Canada to Carolina. ①. June—Aug. v. v. Flowers small, purple.

4. A. posillum, simplex, glabrum; foliis oppositis linearibus acutis, floribus axillaribus brevi-pedunculatis, calycibus campanulatis.

tenellum.

On the banks of the Missouri. *M. Lewis.* ♂. July, v. v.; v. s. in *Herb. Lewis.* Flowers bright blue, large in proportion to the size of the plant.

Cronquist.

5. *A. erectum*, ramosum, pubescens; foliis alternis lanceolatis, floribus subspicatis, calycibus digitatis corolla longioribus, corollis ecaudatis.—*Willd. sp. pl. 3.* p. 258.

Icon. *Curt. fl. lond.* 4. t. 45. *Riv. t. 82.*

In fields: Virginia; rare. ♂. July, Aug. v. v. Flowers pale purple.

507. GERARDIA. *Gen. pl. 1004.*

* *Flores purpurei.*

purpurea.

1. *G. caule* opposite ramosissimo, foliis linearibus, floribus axillaribus oppositis subsessilibus.—*Willd. sp. pl. 3.* p. 221.

Icon. *Pluk. mant. t. 388. f. 1.*

crassifolia.

- β . *G. foliis* carnosis brevioribus.
In fields and woods: New England to Carolina. β . In salt-marshes, near New York, &c. ♂. July, Aug. v. v.

tenuifolia.

2. *G. paniculato-ramosa*; foliis linearibus, pedunculis axillaribus oppositis flore longioribus.—*Willd. sp. pl. 3.* p. 222.

G. erecta. *Walt. fl. car.* 170. *Mich. fl. amer.* 2. p. 20.

Icon. *Pluk. alm. t. 12. f. 4.*

In fields and woods: Pennsylvania to Carolina. ♂. July, Aug. v. v.

setacea.

3. *G. caule* ramosissimo, foliis setaceis, ramulis axillaribus folio longioribus plerumque unifloris.—*Walt. fl. car.* 170.

In sandy fields: Pennsylvania to Virginia. ♂. Aug. v. v.
Resembles the foregoing one; but the flowers are not axillary but terminal, very seldom two on a branch.

auriculata.

4. *G. subsimplex*, tota aspera; foliis ovato-lanceolatis basi 2-auriculatis integerrimis, floribus axillaribus oppositis foliisque arcte sessilibus.—*Mich. fl. amer.* 2. p. 20.

In dry stony fields: Virginia and Illinois. ♂. July, Aug. v. v. Not above eight inches high, without branches.

cuneifolia.

5. *G. paniculato-ramosa*; ramis erectis, foliis cuneato-lanceolatis inaequilatero serratis superioribus alternis,



Gerardia fruticosa. — Google

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Gentiana quercifolia.

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pedunculis axillaribus folio longioribus, calycibus 5-partitis.

In Georgia. *Bartram.* v. s. in *Herb. Banks.*

6. *G. ramosissima*; foliis lanceolatis serratis basi attenuatis subpetiolatis, racemis terminalibus, floribus oppositis bracteatis.

In great abundance in the pine-forests of the Rocky-mountains. *M. Lewis.* h. June. v. s. in *Herb. Lewis.*

Frutex elegans 3-4-pedalis ramosissimus. *Rami* teretes, dense foliosi, tenuissime pubescentes. *Folia* semuncialia, opposita, lanceolata, acuta, interdum obtusa cum mucrone, superne acute serrata, inferne quasi in petiolum attenuata, integerrima, utrinque glabra. *Racemi* terminales, simplices, erecti, bracteati. *Flores* oppositi, pedicellati, magnitudine et colore *Digitalis purpurei*. *Bractae* oppositæ, sessiles, oblongæ, acute, integerrimæ, pedicellis vix breviores. *Calyx* profunde 5-partitus, basi unibracteolatus: lacinia lanceolatis, acutis. *Bracteolæ* lineares, calyce breviores. *Corollæ*: *Tubus* calyce quadruplo longior, superne ventricosus. *Limbus* patens, subæqualis, 5-fidus: *Lacinia* rotundatis. *Filamenta* tubo duplo breviora, imo corollæ inserta. *Antheræ* oblongæ, hirsutissimæ. *Stylus* longitudine tubi. *Capsula*.....

** *Flores flavi.*

7. *G. pubescens*; caulinis subsimplicibus, foliis subsessilibus lanceolatis integerrimis vel dentatis, inferioribus subpinatifido-incisis, floribus axillaribus oppositis subsessilibus.—*Willd. sp. pl. 3. p. 223.*

Icon. *Pluk. mant. t. 389. f. 3.*

In dry shady and rocky woods: New England to Florida. 4: July—Sept. v. v. Flowers large, and, as all the following, yellow. It is seldom more than two feet high.

8. *G. glabra*; caule paniculato, foliis petiolatis pinnatifidis: lacinia lanceolatis acutis integris vel postice incisodentatis, summis lanceolatis integris, floribus axillaribus oppositis pedicellatis.

Rhinanthus virginicus. *Willd. sp. pl. 3. p. 191.*

Icon. *Pluk. alm. t. 389. f. 1.*

On the banks of rivers, in rich shady places: Pennsylvania to Carolina. 4. July, Aug. v. v. From three to five feet high. This fine species has been generally

fruticosa.

flava.

quercifolia.

confounded with the foregoing one, but differs widely from it. The stem is smooth, purple, with a blue dew over it, and very much branched. The flowers are nearly the size, shape, and colour of the preceding species. The original specimen of Gronovius of *Rhinanthus virginicus*, in the Banksian Museum, is evidently our present plant.

- Pedicularia.* 9. *G. pubescens, brachiatim-paniculata ; foliis oblongis duplicato-inciso-serratis pinnatifidisque, floribus axillaribus oppositis pedicellatis, calycis lacinias foliaceis inciso-dentatis.* — *Willd. sp. pl. 3. p. 223.*
 Icon. *Lam. illustr. t. 529. f. 2.*
 In dry shady woods : New York to Carolina. ♂. June — Aug. v. v. A very handsome species, of which there are several very striking varieties.
- cassiooides.* 10. *G. virgatim-paniculata ; foliis setaceo-pinnatifidis : laci-niis linearibus.*
G. Afzelia. *Mich. fl. amer. 2. p. 20.*
Afzelia cassiooides. *Gmel. syst. nat. 927.*
Anonymos cassiooides. *Walt. fl. car. 171.*
 In dry sandy woods of Carolina and Georgia. ♂. July, Aug. v. s. Flowers small, yellow.

508. PEDICULARIS. Gen. pl. 1003.

- euphrasioides.* 1. *P. caule ramoso pubescente, foliis pinnatifidis dentatis, calycibus tubulosis bipartitis truncatis, corollæ galea bidentata.* *Willd. sp. pl. 3. p. 204.*
 Icon. *Houttuyn. linn. syst. 8. t. 57.*
 In Labrador. *Colmaster.* ♀. v. s. in *Herb. Dickson.* Flowers yellow; from six to eight inches high.
- pallida.* 2. *P. caule ramoso elato glabro, foliis suboppositis lanceolatis crenatis dentatis, spica aphylla glabra, corollæ galea obtusa, calyce bifido rotundato.* — *Herb. Banks.*
P. virginica. *Lam. encycl. 5. p. 126.*
 In swamps, on lime-stone soil : Virginia. *Lamarck.* In a swamp near King's-bridge, New York. *Ph.* ♀. July, Aug. v. v.; v. s. in *Herb. Banks.* Flowers yellow; grows upwards of three feet high. I considered this species to be the *Rhinanthus virginicus*, which Linnæus had adopted from Gronovius's Flora Virginica; but on examining the Gronovian Herbarium in the Banksian Museum, I found his *Rhinanthus* to be the *Gerardia quercifolia*.
- lanceolata.* 3. *P. caule simplici, foliis lanceolatis inciso-dentatis, spica*

aphylla, *calycibus glabris*, *capsulis brevibus*. *Mich.*
fl. amer. 2. p. 18.

In the Illinois country. *Michaux. 4.*

4. *P. caule simplici, foliis lanceolatis pinnatifidis dentatis, spica foliosa alterniflora hirsuta, capsulis in mucronem gladiatum exsertum protractis.* — *Mich. fl. amer. 3. p. 18.* *gladiata.*

In rich soil, in grassy moist places: Pennsylvania to Virginia. *4.* May, June. *v. v.* Flowers yellow, tinged with purple; sometimes a foot high.

5. *P. caule simplici, foliis pinnatifidis inciso-dentatis, capitulo basi folioso hirsuto, corollis galea setacea-bidentata, calycibus deorsum truncatis.* — *Willd. sp. pl. 3. p. 211.* *canadensis.*

In woods and meadows: Canada to Carolina. *4.* May — July. *v. v.* About a span high; flowers yellowish-white, with a tinge of purple.

6. *P. caule simplici, foliis glabro, foliis lanceolatis dentatis crenatis, calycibus bifidis truncatis, corollæ galea acuta.* *Willd. sp. pl. 3. p. 206.* *resupinata.*

Icon. *Gmel. fl. sib. 3. t. 44.*

In Canada. *4.* July. *v. s.* About a foot high; flowers deep purple.

7. *P. caule simplici, foliis profunde pinnatifidis, pinnis lanceolatis pinnatifidis dentatis, spica compacta foliosa, calycibus glabris quinquedentatis, corollæ galea obtusissima.* *Willd. sp. pl. 3. p. 210.* *recutita.*

Icon. *Jacq. fl. austr. 258.*

On the north-west coast. *A. Menzies;* and probably throughout Canada. *4.* July. *v. s. in Herb. Banks.* Flowers purple.

8. *P. caule simplici, foliis profunde pinnatifidis, pinnis linear-lanceolatis crenatis, spica laxa subfoliosa, calycibus glabris 5-dentatis, corollæ galea obtusa truncata.* *Willd. sp. pl. 3. p. 210.* *elata.*

In low plains, on the waters of Clark's river. *M. Lewis.* *4. July. v. s. in Herb. Lewis.* Near two feet high; flowers purple.

9. *P. caule simplici, foliis pinnatifidis, pinnis serratis, calycibus bifidis oblongis, corollæ galea uncinata truncata.* *Willd. sp. pl. 3. p. 207.* *lapponica.*

Icon. *Fl. dan. 2. Fl. lapp. t. 4. f. 1.*

In Labrador. *Colmaster.* *4. July. v. s. in Herb. Dickson.* Flowers yellow.

- grænlandica*. 10. P. caule simplici, foliis profunde pinnatifidis, pinnis lanceolatis acuminatis serratis, calycibus glabris 5-dentatis, corollis clausis, galea uncinato-subulata. *Willd. sp. pl. 3. p. 212.*
 Icon. *Fl. dan. 1166. Retz. obs. 4. t. 1.*
 In low plains of the Columbia. *M. Lewis. Ʌ. July. v. s. in Herb. Lewis. nec non Lambert.* Flowers purple.
- verticillata*. 11. P. caule simplici, foliis caulinis profunde pinnatifidis quaternis, pinnis linearibus acute dentatis, spica capitata involucrata, calycibus villosis 5-fidis, corollæ galea obtusissima.
P. verticillata β. *Willd. sp. pl. 3. p. 214.*
P. lanata. Pallas in Herb. Lambert.
 On the north-west coast. *Nelson. Ʌ. v. s. in Herb. Banks. nec non Lambert.* Not above two inches high; flowers purple.
- flammea*. 12. P. caule simplici, foliis pinnatis, pinnis imbricatis ovatis obtusis duplikato-dentatis, calycibus 5-dentatis, corollæ galea obtusa. *Willd. sp. pl. 3. p. 215.*
 Icon. *Fl. dan. 30. Fl. lapp. t. 4. f. 2. Hall. fl. helv. t. 8. f. 3.*
 In Labrador. *Colmaster. Ʌ. v. s. in Herb. Dickson.* Not above three inches high; flowers yellow, with a scarlet helmet.

509. MIMULUS. *Gen. pl. 1049.*

- ringens*. 1. M. erectus, glaber; foliis sessilibus lanceolatis acuminatis serratis, pedunculis axillaribus oppositis flore longioribus, dentibus calycis oblongis acuminatis.—*Willd. sp. pl. 3. p. 360.*
 Icon. *Bot. mag. 283. Pluk. amalh. t. 303. f. 3.*
 In low grounds, on clay soil: Pennsylvania to Carolina. Ʌ. July, Aug. v. v. Flowers pale blue, large.
- alatus*. 2. M. erectus, glaber; foliis petiolatis ovatis acuminatis serratis, pedunculis axillaribus oppositis flore brevioribus, dentibus calycis rotundatis mucronatis, caule tetragono alato.—*Willd. sp. pl. 3. p. 361.*
 In ditches and on the borders of ponds: Pennsylvania to Carolina. Ʌ. July, Aug. v. v. Flowers the size and colour of the foregoing.
- luteus*. 3. M. erectus, glaber, stoloniferus; foliis subrotundo-ovatis nervosis dentatis, inferioribus obtusis petiolatis, superioribus acutis arcte sessilibus, racemo terminali,



Mimulus Louisianae.

Drawn & Engraved by J. C. M.

pedunculis axillaribus oppositis elongatis, calyce inaequali, dentibus acutiusculis.—*Willd. sp. pl. 3. p. 361.*

Icon. *Feyill. peruv. 2. t. 34.*

On the banks of Clark's river. *M. Lewis.* On the north-west coast. *Pallas.* $\frac{4}{4}$. July, Aug. v. s. in *Herb. Lewis. nec non Lambert.* Flowers golden-yellow. It has lately been introduced into the gardens, and will be a fine addition to our hardy perennial plants.

4. *M. erectus, pusillus, pubescens; foliis sessilibus oblongo-lanceolatis acutis nervosis mucronato-denticulatis, floribus paucis terminalibus longissime pedunculatis, dentibus calycis acuminatis.*

On the head springs of the Missouri, at the foot of Portage hill. *M. Lewis.* $\frac{4}{4}$. Aug. v. s. in *Herb. Lewis.* Not above eight inches high; flowers two or three, larger than any other known species, of a beautiful pale purple.

510. CHELONE. *Gen. pl. 1005.*

1. *C. foliis oppositis lanceolato-oblongis acuminatis serratis, spicis terminalibus densifloris.—Willd. sp. pl. 3. p. 225.*

glabra.

- $\alpha.$ *C. foliis subsessilibus, floribus albis.*
 $\beta.$ *C. foliis brevi-petiolatis, floribus purpureis.*

alba.

C. obliqua. Willd. sp. pl. 3. p. 225.

purpurea.

C. purpurea. Mill. dict. n. 2.

Icon. *Schkuhr handb. 172. Mill. ic. 93. Plak. mant. t. 348. f. 3.*

On the banks of rivers, ponds, and swamps: New England to Carolina. $\beta.$ In rivulets on the high mountains of Virginia and Carolina. $\frac{4}{4}$. July, Aug. v. v. Flowers large, in close spikes, in var. $\alpha.$ white; purple in var. $\beta.$ I have not been able to find sufficient distinctions between *C. glabra* and *C. obliqua*, so as to consider them distinct species.

511. PENTSTEMON. *Gen. pl. 1758.*

1. *P. caule glabro, foliis lœvigatis ovato-oblongis basi amplexicaulinibus tenuissime denticulatis, inferioribus integrimis, floribus paniculatis, filamento sterili superne barbato.—Willd. sp. pl. 3. p. 228.*

lœvigata.

Chelone Penstemon. J. F. Miller. ic. 4.

Icon. *Lam. illustr. 526. Arduin. spec. t. 5. Moris. hist. 2. s. 5. t. 8. f. 6.*

In stony low grounds: Pennsylvania to Carolina. ♀. July—Sept. v. v. From one to two feet high; flowers pale purple.

pubescens. 2. *P. caule pubescente, foliis serrulatis lanceolato-oblongis sessilibus, floribus paniculatis, filamento sterili ab apice infra medietatem barbato.*—*Willd. sp. pl. 3. p. 227.*
Chelone Pentstemon. *Mant. 415.*

latifolia. α. *P. foliis levigatis serratis latioribus.*
Icon. *Moris. hist. 3. s. 11. t. 21. f. 2.*

angustifolia. β. *P. foliis pubescensibus obsecure denticulatis angustis.*
P. hirsuta. *Willd. sp. pl. 3. p. 227.*

Chelone hirsuta. *Mill. dict. n. 3.*

Icon. *Moris. hist. 3. s. 11. t. 21. f. 3.*

On the side of hills and in dry meadows: New York to Virginia. ♀. July—Sept. v. v. About a foot high; flowers pale purple, longer than the foregoing species.

frutescens. 3. *P. caule fruticoso, ramis angulatis superne pubescensibus, foliis lanceolatis obsolete denticulatis sessilibus glabriusculis, racemis terminalibus subcorymbosis, filamento sterili longitudinaliter barbato.*—*Lambert in linn. trans. 10. p. 259.*

Icon. *Linn. trans. 10. t. 6.*

On the north-west coast. *M. Lewis.* Unalashka. *Pallidus.* ♀. v. s. in *Herb. Lambert.* nec non *Lewis.* A small shrub, about a foot or more high; flowers purple.

512. MARTYNIA. *Gen. pl. 1010.*

Proboscidea. 1. *M. caule ramoso, foliis alternis cordatis integerrimis villosis.*—*Willd. sp. pl. 3. p. 264.*

M. alternifolia. *Lam. encycl. 2. p. 112.*

M. annua. *Sp. pl. 862.*

Icon. *Bot. mag. 1056.* *Mill. ic. 286.*

On the banks of the Mississippi. ♂. July. v. v. Flowers large, white, speckled with purple and yellow. The singular shape of its fruit, connected with the beauty of its flowers, makes this annual a desirable plant in all collections.

513. SCHWALBEA. *Gen. pl. 1001.*

americana. 1. *S. simplex, pubescens; foliis lanceolatis, racemo terminali, floribus alternis.*—*Willd. sp. pl. 3. p. 201.*

Icon. *Lam. illustr. 520.* *Plak. mant. t. 348. f. 2.*

In pine-barrens: New Jersey to Carolina. ♀. ♂. June, July. v. v. Flowers yellowish-brown.

514. RHINANTHUS. *Gen. pl. 997.*

1. *R. corollarum* labio superiore emarginato bidentato, lacinia media labii inferioris brevissima. *Willd. sp. pl. 3.* p. 188. *Crista galli.*
 Icon. *Schkuhr handb.* 169. *Fl. dan.* 981. *Engl. bot.* 657.
 In fields and meadows: Lower Canada. ♂. June, July.
v. v. Flowers yellow. *R. virginicus.* Vid. *Gerardia* & *Pedicularis pallida.*

515. BARTSIA. *Gen. pl. 996.*

1. *B. foliis alternis linearibus indivisis, superioribus lanceolatis, floralibus subovalibus summitate subdentatis, omnibus 3-nervibus, dentibus calycis acutis.* — *Willd. sp. pl. 3. p. 186.* *Mich. fl. amer. 2. p. 17.* *pallida.*
 Icon. *Gmel. fl. sil. 3. t. 42.*
 In Canada and Labrador. On the White-hills of New Hampshire. *Prof. Peck.* ♀. July. *v. s. in Herb. Lambert.* Flowers pale yellow; the floral leaves purple.
2. *B. foliis alternis praelongo-linearibus, floralibus ovatis longissime acuminatis 3-nervibus, omnibus indivisis, floribus bracteis brevioribus, dentibus calycis acutis.* *acuminata.*
 On the north-west coast: Unalashka. ♀. *v. s. in Herb. Lambert.*
3. *B. hirsutissima; foliis alternis linearibus inciso-pinnatifidis: lacinii filiformibus, bracteis membranaceis oblongis obtusis basi triangule hastato-unidentatis floribus longioribus, calycibus brevibus pilosis, dentibus subulatis.* *tenuifolia.*
 On the banks of Clark's river. *M. Lewis,* ♀. July. *v. s. in Herb. Lewis.* About a foot high; flowers deep yellow; floral leaves tinged with purple.
4. *B. foliis alternis linearibus inciso-pinnatifidis, lacinii linearibus, bracteis dilatatis plerumque trifidis floribus longioribus, dentibus calycis rotundato-obtusis.* — *Willd. sp. pl. 3. p. 185.* *coccinea.*
 Icon. *Plak. atm. t. 102. f. 5.* *Moris. hist. 3. s. 11. t. 13. f. 28.*
- a. *B. bracteis coccineis.* *coccinea.*
 β. *B. bracteis lutescentibus. Rarior.* *pallens.*
 In wet meadows: Canada to Florida. ♂. ♀. June, July. *v. v.* Flowers yellow, involved in scarlet floral leaves, which give this plant a very elegant appearance.

alpina.

5. *B. foliis oppositis ovatis subcordatis obtuse-serratis rugosis, antheris hirsutis.*—*Willd. sp. pl. 3. p. 187.*
Icon. Fl. dan. 43. Engl. bot. 361. Schkuhr handb. 168.
 In Labrador. *Colmaster.* 4. July. *v. s. in Herb. Dickson.* Not above six inches high; floral leaves similar to the stem leaves, purple; flowers long, of a fine deep purple.

Gymnandra.

6. *B. foliis suboppositis ovatis crenatis, binis radicalibus petiolatis, spica oblonga, verticillis bracteatis coarctatis.*—*Willd. sp. pl. 3. p. 186.*

Gymnandra borealis. Pall. itin. 3. t. A. f. 1.

Lagotis glauca. Gaert. act. petrop. 14. t. 18.

On the mouth of the river Columbia. *M. Lewis.* In Unalashka. *Herb. Pallas.* 4. v. s. in *Herb. Lewis. nec non Lambert.* About a span high; flowers pale blue. This singular plant grows on the most unfertile rocks, exposed to the most rigorous cold winds, in places where vegetation seems entirely to cease.

516. EUPHRASIA. *Gen. pl. 998.**officinalis.*

1. *E. foliis ovatis obtuse-dentatis, lacinias labii corollæ inferioris emarginatis.* *Willd. sp. pl. 3. p. 193.*
Icon. Fl. dan. 1087. Engl. bot. 1416. Sabb. hort. 3. t. 9.
 In Canada. *Michaux.* ①. July—Sept. *v. s.* Flowers white, with purple veins.

latifolia.

2. *E. foliis ovatis dentato-palmatis, floribus spicatis, corollis tubulosis, lacinia labii inferioris obtusis.* *Willd. sp. pl. 3. p. 192.*
Icon. Sabb. hort. 3. t. 7. Moris. hist. 3. s. 11. t. 24. f. 8.
 In Labrador. *Colmaster.* ①. July. *v. s. in Herb. Dickson.* Flowers smaller, pale purple.

517. MELAMPYRUM. *Gen. pl. 999.**lineare.*

1. *M. gracile; foliis inferioribus linearibus integris, floralibus lanceolatis postice dentatis, floribus axillaribus distinctis.*—*Lam. encycl. 4. p. 23.*
M. americanum. Mich. fl. amer. 2. p. 16.
 In shady woods, particularly on the mountains: Canada to Carolina. ①. July, Aug. *v. v.* Flowers yellow.

518. OBOLARIA. *Gen. pl. 1044.*

1. *O. caule simplici, foliis oblongis truncatis carnosis subtus purpureis, floribus axillaribus solitariis sessilibus.*—*Willd. sp. pl. 3. p. 346.*
Icon. Pluk. alm. t. 209. f. 6. Moris. hist. 3. s. 12. t. 16. f. 23.
 In shady rocky places : Pennsylvania to Virginia ; rare.
 Not above three inches high ; flowers pale red, in a spike, supported by purple bracteas.

*virginica.*519. OROBANCHE. *Gen. pl. 1045.*

1. *O. caule ramoso, floribus alternis distantibus, corollis deciduis 4-dentatis.*—*Willd. sp. pl. 3. p. 351.*
Icon. Moris. hist. 3. s. 12. t. 16. f. 9.
 Parasitic on the roots of beech-trees : Canada to Georgia.
 $\frac{1}{2}$. July—Sept. v. v. Flowers small, purple. This plant is known by the name of *Cancer-root*, being thought to be a never-failing remedy in cancerous ulcers.
2. *O. caule simplicissimo squamis ovali-lanceolatis imbricatis obtecto, spica terminali glabra, corollis recurvatis, staminibus exsertis.*—*Willd. sp. pl. 3. p. 351.*
 Parasitic on the roots of trees : Pennsylvania to Carolina.
 $\frac{1}{2}$. July. v. v. About a span high, of a brownish-yellow colour.
3. *O. scapis nudis unifloris, calyce ebracteato, corolla recurvata.*—*Willd. sp. pl. 3. p. 352.*
Icon. Pluk. mant. t. 348. f. 3.
 Parasitic on the roots of different plants and shrubs : Canada to Virginia. $\frac{1}{2}$. June, July. v. v. Not above two or three inches high, of a tan colour ; flowers pale purple.

*americana.**uniflora.*

XIV. TETRADYNAZIA.

I. SILICULOSA.

* *Silicula integra*.

520. DRABA. *Silicula* integra, ovali-oblonga, valvis planiusculis dissepimento parallelis.
521. MYAGRUM. *Silicula* suberosa, evalvis, loculis fertilibus atque spuris, sibi mutuo superimpositis. *Stylus* persistens.
522. CAKILE. *Silicula* lanceolata, subtetragona, medio utrinque dente instructa, biarticulata, ad articulos sedentes : articulis monospermis, evalvibus.

** *Silicula apice emarginata*.

523. ALYSSUM. *Filamenta* quædam introrsum denticulo notata. *Silicula* emarginata, plerunque pilosa.
524. CORONOPUS. *Silicula* reniformis, compressa, corrugata, loculis evalvibus monospermis.
525. LEPIDIUM. *Silicula* emarginata, cordata, polysperma : valvulis carinatis dissepimento contrariis.
526. THLASPI. *Silicula* emarginata, obcordata, polysperma : valvulis navicularibus, marginato-carinatis.

II. SILIQUOSA.

* *Calyx clausus, foliolis longitudinaliter conniventibus*.

527. ERYSUMUM. *Siliqua* columnaris, tetraëdra.
528. CHEIRANTHUS. *Silicula* compressa. *Stigma* bilobum. *Germen* utrinque denticulo glandulato.
529. HESPERIS. *Petala* oblique flexa. *Siliqua* stricta. *Stigma* basi bifurca apice connivente. *Glandula* intra stamina breviora.
530. ARABIS. *Siliquæ* compressæ. *Glandulæ* nectari-

feræ 4. singula intra calycis foliola, squamæ instar reflexæ.

531. TURRITIS. *Siliqua longissima*, angulata, striata. *Cal. connivens*, erectus. *Petalu erecta*.
 532. BRASSICA. *Cal. erectus*, connivens. *Dissepimentum prominens*. *Sem. globosa*. *Glandula inter stamina breviora et calycem*. *Siliqua teres*, rostrata.
 533. DENTARIA. *Siliqua elastice dissiliens*, valvulis revolutis. *Dissepimentum subfungosum*. *Stigma emarginatum*. *Cal. connivens*.

** *Calyx hians*, foliolis superne distantibus.

534. CARDAMINE. *Siliqua elastice dissiliens*, valvulis revolutis. *Stigma integrum*.
 535. SISYMBRIUM. *Siliqua rostro brevi tereti dehiscens*, valvulis rectiusculis. *Corolla patens*.
 536. CLEOME. *Glandulae nectariferæ* 3. ad singulum sinus calycis singulæ, excepto infimo. *Petala omnia adscendentia*. *Germen stipitatum*. *Siliqua 1-locularis*, 2-valvis.

I. SILICULOSA.

520. DRABA. Gen. pl. 1076.

1. D. scapo nudo, foliis oblongis acutis subserratis hirtis, petalis bifidis, stigmate sessili.—*Willd. sp. pl. 3. p. 426.*

verna.

Icon. Fl. dan. 983. Engl. bot. 586.

In cultivated grounds and old fields : Canada to Virginia. ○. March—May. v. v. All the species of this genus are small plants with white flowers.

2. D. scapo nudo, foliis ovalibus acutis hirsutissimis, sifliculis longo-linearibus glabris approximatis.—*Mich. fl. amer. 2. p. 28.*

hispida.

D. caroliniana. *Walt. fl. car. 174.*

In sandy fields : Virginia and Carolina, and on the banks of the Missouri. ○. April—June. v. v.

3. D. scapo subunifolio adscendente, foliis lanceolatis integrerrimis subtomentosis : pilis stellatis, petalis retusis. —*Willd. sp. pl. 3. p. 427.*

nivalis.

TETRADYNAZIA SILICULOSA. Draba.

- glabella.* 4. D. scapo subbifolio erecto, foliis spathulato-lanceolatis glabriusculis, racemo densifloro, siliculis ovato-lanceolatis acutis.
Icon. *Fl. dan.* 142. *Liljeblad nov. act. ups.* 6. t. 2. f. 2.
* In Labrador. *Colmaster.* ♂. May. v. s. in *Herb. Dickson.*
- incana.* 5. D. foliis caulinis numerosis incanis, pilis implexis stellatis, siliculis oblongis obliquis stylo brevissimo mucronatis.—*Willd. sp. pl.* 3. p. 430.
Icon. *Fl. dan.* 130. *Engl. bot.* 388. *Pluk. alm.* t. 42. f. 1.
In Labrador. ♂. May, June. v. s. in *Herb. Lambert.*
- arabisans.* 6. D. caule folioso subramoso, foliis radicalibus cuneato-lanceolatis, caulinis lanceolatis, omnibus acutis divaricato-dentatis, siliculis stylo acuminatis.—*Mich. fl. amer.* 2. p. 28.
On rocks, near the banks of rivers: Canada to Virginia.
♂. May, June. v. v. I collected specimens on the rocks near Harper's Ferry, Virginia.

521. MYAGRUM. *Gen. pl.* 1069.

- argenteum.* 1. M. undique cano-tomentosum; siliculis oblongis pedunculatis tomentosis, foliis linearis-spathulatis sensim attenuatis ictigerrimis, petalis obovatis.
On the banks of the Missouri. ♂. v. s. Flowers yellow; the whole of the plant has some resemblance to *Alyssum saxatile*.

522. CAKILE. *Gært. sem.* 2. p. 287.

- maritima.* 1. C. foliis pinnatis, pinnis linearibus subdentatis. *Willd. sp. pl.* 3. p. 416.
Bunias Cakile. Sp. pl. 936.
Icon. *Engl. bot.* 231.
On the sea-coast: Canada to Virginia. ♂. July, Aug. v. v. Flowers purple.

523. ALYSSUM. *Gen. pl.* 1081.

- hyperboreum.* 1. A. caulis herbaceis, foliis incanis dentatis, staminibus 4. bifurcatis. *Willd. sp. pl.* 3. p. 463.
Icon. *Kraschen. act. petr.* 1747. t. 15. f. 1.
On the north-west coast. +.

524. CORONOPUS. *Gaert. sem. t. 142.*

1. *C. siliculis integris cristato-muricatis, stylo porrecto, corymbis paucifloris.* *Smith fl. brit. 2. p. 690.*
Cochlearia Coronopus. *Willd. sp. pl. 3. p. 450.*
Icon. Fl. dan. 202. *Engl. bot. 1660.*
 On road-sides : Virginia and Carolina. ♂. June—Aug.
 v. v. Flowers very small, white.
2. *C. siliculis emarginatis didymis reticulato-rugosis, stylo obsoleto, corymbis multifloris.* *Smith fl. brit. 2. p. 691.*
Cochlearia humifusa. *Mich. fl. amer. 2. p. 27.*
Lepidium didymum. *Willd. sp. pl. 3. p. 439.*
Lepidium anglicum. *Huds. angl. 280.*
Biscutella apetala. *Walt. fl. car. 174.*
 In cultivated grounds of Virginia and Carolina. ♂. June
 —Aug. v. v. Smaller than the foregoing species ;
 both have pinnated leaves.

*Ruellia.**didyma.*525. LEPIDIUM. *Gen. pl. 1077.*

1. *L. foliis radicalibus pinnatifidis, caulinis linear-lanceolatis subinciso-serratis, floribus 4-petalis diandris, siliculis lentiformibus.* *Willd. sp. pl. 3. p. 440.*
Icon. Sloan. jam. 1. t. 123. f. 3. *Moris. hist. 2. s. 3. t. 21. f. 2.*
 In dry fields and orchards : New York to Carolina. ♂.
 June—Aug. v. v. About a foot high; flowers not conspicuous.

*virginicum.*526. THLASPI. *Gen. pl. 1078.*

1. *T. siliculis orbiculatis compressis laevibus, foliis oblongis dentatis glabris.* *Willd. sp. pl. 3. p. 442.*
Icon. Fl. dan. 793. *Engl. bot. 1659.*
 In stony fields : New York and Pennsylvania ; rare. ♂.
 June, July. v. v.
2. *T. hirsutum, siliculis deltoideo-obcordatis, foliis radicibus pinnatifidis.* *Willd. sp. pl. 3. p. 447.*
Icon. Engl. Bot. 1485. *Schkuhr handb. 160.*
 A common weed, every where to be found in cultivated grounds. ♂. April—Sept. v. v.

*eruense.**Barts pasto-**ris.*

II. SILIQUOSA.

527. ERYSIMUM. Gen. pl. 1090.

- officinale.* 1. E. siliquis spicæ adpressis, foliis uncinatis. Willd. sp. pl. 3. p. 509.
Icon. Fl. dan. 560. Schkuhr handl. 183.
On road sides, frequent : Canada to Carolina, ♂. June, July. v. v. Flowers small, yellow.
- cheiranthoides.* 2. E. siliquis erectis, pedicellis fructiferis patentibus, foliis lanceolatis subintegerrimis.—Willd. sp. pl. 3. p. 511.
Icon. Fl. dan. 731 & 923. Engl. bot. 942. Jacq. fl. austr. 23.
In old fields and on road sides : Virginia ; rare. ♂. June, July. v. v. Flowers yellow.
- lanceolatum.* 3. E. foliis lanceolatis inferioribus dentatis, ungnibus calyce longioribus, laminis orbiculato-obovatis, stigmate sessili. Ait. kew. ed. 2. t. 4. p. 116.
Cheiranthus erysimoides. Willd. sp. pl. 3. p. 514.
Icon. Jacq. fl. austr. 74.
On the banks of the Missouri. ♂. June. v. s.

528. CHEIRANTHUS. Gen. pl. 1091.

- Pallasii.* 1. C. caule simplici tereti glabriusculo, foliis glabris lanceo-lato-linearibus attenuatis repando-dentatis.
On the north-west coast. Pallas. ♂. July. v. s. in Herb. Lambert. Flowers dark red, the size of *C. Cheiri*.

529. HESPERIS. Gen. pl. 1093.

- pinnatifida.* 1. H. foliis argute serratis : superioribus lanceolatis, inferioribus inferne pinnatifidis, siliquis brevi-pedunculatis breviusculis. Mich. fl. amer. 2. p. 31.
In shady woods : Kentucky and Tennessee. ♂. June. v. v.

530. ARABIS. Gen. pl. 1049.

- alpina.* 1. A. foliis oblongo-lanceolatis amplexicaulibus acutè dentatis. Willd. sp. pl. 3. p. 534.
Icon. Bot. mag. 226. Fl. dan. 62.
In Labrador. Colmaster. ♀. May, June. v. s. in Herb. Dickson. Flowers, as all the following, white.

2. *A. foliis radicalibus oblongis petiolatis, caulinis lanceolatis sessilibus, caule erecto basi hirto, petalis calyce duplo longioribus.* *Willd. sp. pl. 3. p. 535.*
Icon. Schkuhr handb. 185. Curt. fl. lond. 2. t. 49.
 In dry sandy fields and on old walls: New England to Virginia. ☽. April—July. v. v.
 3. *A. foliis subrotundis integerrimis hirsutis, surculis repentinibus.* *Willd. sp. pl. 3. p. 536.*
Icon. Pluk. alm. t. 51. f. 5.
 In sandy fields: Pennsylvania to Virginia. ¼. June, July.
 v. v.
 4. *A. foliis glabris, radicalibus lyratis, caulinis linearibus.* *Willd. sp. pl. 3. p. 538.*
 In fields and on dry hills: Canada to Pennsylvania. ☽. March—May. v. v.
 5. *A. foliis dentatis obtusis hispidis, radicalibus sublyratis, caulis hispidis, petalis erectis.* —*Willd. sp. pl. 3. p. 539.*
A. hispida. Ait. kew. 2. p. 400.
Icon. Engl. bot. 614.
 In Labrador. *Colmaster.* ¼. May. v. s. in *Herb. Dickson.*
 6. *A. foliis lanceolatis utrinque angustatis remote dentatis hastato-sessilibus, siliquis pendulis ancipitibus falcati.* —*Mich. fl. amer. 2. p. 31.*
A. canadensis. Willd. sp. pl. 3. p. 540.
Turritis foliis lanceolatis dentatis, radicalibus maximis, siliquis compressis falcatis. Gron. fl. virg. 1. p. 77.
Icon. Pluk. alm. t. 86 f. 8.
 In rocky shady situations: Canada to Virginia. ¼. May, June. v. v.; v. s. in *Herb. Gronov.* From two to five feet high.
 7. *A. foliis glabris rhomboideis repando-obsolete-dentatis, infimis longe petiolatis, radice tuberosa.* —*Pers. syn. 2. p. 204.*
A. bulbosa. Muhl. in litt.
A. amara. Herb. Banks.
A. foliis ovatis denticulatis glabris. Gronov. virg. 99.
 On the borders of rivulets and springs. ¼. March—May. v. v. This is one of the early spring flowers; the taste resembling spring cresses. It would be desirable to have it introduced into the gardens for that purpose, as it will grow in any soil.

531. TURRITIS. *Gen. pl. 1095.**lavigata.*

1. *T. foliis glabris, radicalibus obovatis serratis, caulinis lanceolato-linearibus integerrimis amplexicaulibus.* Willd.
sp. pl. 3. p. 543.

On rocks: Pennsylvania to Virginia; rare. ♂. May,
June. v. v. *Very smooth and glaucous, about a foot high.*

seata.

2. *T. pubescens; foliis radicalibus petiolatis ovatis dentatis obtusis, caulinis amplexicaulibus oblongis serratis acutis.*

On rocks: Pennsylvania to Virginia. ♂. May, June.
*Resembles *T. hirsuta*.*

532. BRASSICA. *Gen. pl. 1096.**Napus.*

1. *B. radice caulescente fusiformi, foliis laevibus, superioribus cordato-lanceolatis amplexicaulibus, inferioribus lyratis dentatis.* Willd. sp. pl. 3. p. 547.

Icon. Engl. bot. 2146.

Rape frequently is found wild, but is of European origin. ♂. May, June. v. v.

Rapa.

2. *B. radice caulescente orbiculari depressa carnosa, foliis radicalibus lyratis scabris, caulinis integerrimis laevibus.* Willd. sp. pl. 3. p. 548.

Icon. Engl. bot. 2176.

Turnips are likewise apparently indigenous.

533. DENTARIA. *Gen. pl. 1067.**Luciniata.*

1. *D. foliis ternis ternatis, foliolis tripartitis linearis-oblongis incisis dentatis, radicis tuberibus moniliformibus.*—Willd. sp. pl. 3. p. 479.

D. concatenata. Mich. fl. amer. 2. p. 30.

In shady mountainous situations: New England to Carolina. ♀. May, June. v. v. *Flowers large, pale purple.*

diphylla.

2. *D. caulinibus approximate diphylloides, foliolis ternis ovato-oblongis inaequaliter inciso-dentatis, radice dentata.*—*Mich. fl. amer. 2. p. 30.*

Icon. Bot. mag. 1465.

In shady beech-woods, on high mountains: Pennsylvania to Carolina. ♀. May, June. v. v. *Flowers pale red, with a tinge of yellow. The roots of this plant*

are of a pungent mustard-like taste, and are used by the natives instead of mustard; in the mountains it is generally known by the name of *Pepper-root*. The figure in the Botanical Magazine is taken from an individual plant, in which the radical leaf is bilobated, which is not always the case.

3. *D. caule distaunter diphyllo, foliis sessilibus ternatis, foliolis linear-ellipticis integris, petalis cuneatis.* *tenella.*

On the banks of the Columbia. $\frac{1}{4}$. April. *v. s. in Herb. Lewis.* Very slender; leaves small; flowers purple.

534. CARDAMINE. Gen. pl. 1088.

1. *C. foliis simplicibus suborbiculatis integriusculis, caulis simpliciusculis debiliter procumbentibus.* *Mich. fl. amer. 2. p. 30.* *rotundifolia.*

On rocks, in the rivulets of the high mountains of Virginia and Carolina. $\frac{1}{4}$. May, June. *v. v.* The flowers of all the following species are white and small.

2. *C. caule nudo, foliis radicalibus lanceolatis inciso-dentatis glabris, siliquis turgidis subarticulatis.* *articulata.*

On the north-west coast. *Nelson.* $\frac{1}{4}$. *v. s. in Herb. Banks.* A doubtful species.

3. *C. parvula; caulis decumbentibus, foliis radicalibus spathulatis pubescentibus, caulinis linear-cuneatis integris dentatis, siliquis divaricato-laxis.* — *Mich. fl. amer. 2. p. 29.* *spathulata.*

On high mountains of Carolina. *Michaux.* +.

4. *C. pusilla, acaulis; foliis obtuse lyrato-pinnatifidis, pedunculis radicalibus unifloris.* *Mich. fl. amer. 2. p. 29.* *uniflora.*
On rocks near Knoxville, Kentucky. *Michaux.* +.

5. *C. pusilla, erecta, ramosa; foliis omnibus sublyrato-pinnatifidis, siliquis brevibns linearibus acuminatis teretibus, brevissime pedicellatis.* *Mich. fl. amer. 2. p. 29.* *teres.*

In overflowed places: New England to New Jersey. $\frac{1}{4}$. June, July. *v. v.*

6. *C. glabra, erecta; foliis pinnatis, foliolis lanceolatis subauriculatis, siliquis longis stricte erectis.* — *Willd. sp. pl. 3. p. 488.* *virginica.*

Icon. *Pluk. alm. t. 101. f. 4.* *Petiv. gaz. t. 105. f. 18.*
In low meadows: Canada to Carolina. $\frac{1}{4}$. May, June.
v. v.

- pensylvanica.* 7. *C. glabra*, ramosa; foliis pinnatis, foliolis subrotundoblongis obtusis angulato-dentatis, siliquis angustis erectis.—*Willd. sp. pl. 3. p. 486.*
In low meadows: New York to Pennsylvania. ¼. June.
v. v.
- pratensis.* 8. *C. glabra*, erecta, simplex; foliis pinnatis, foliolis radiocalibus subrotundis dentatis, caulinis lanceolatis subintegris, racemis subcorymbosis.—*Willd. sp. pl. 3. p. 487.*
Icon. *Fl. dan. 1039. Engl. bot. 776.*
In meadows: Hudson's Bay. ¼. May. *v. s. in Herb. Banks.* Flowers large, reddish purple.
- multifida.* 9. *C. pubescens*, ramosa; foliis interrupte pinnatis, pinnis bipinnatifidis, lacinia rotundatis incisis, siliquis brevibus.—*Herb. Banks.*
In Florida. *Bartram.* ¼. *v. s. in Herb. Banks.*

535. SISYMBRIUM. *Gen. pl. 1089.*

- Nasturtium.* 1. *S. siliquis declinatis brevibus*, foliis pinnatis, foliolis subrotundis repando-pauci-dentatis.—*Willd. sp. pl. 3. p. 489.*
Icon. *Fl. dan. 690. Schkuhr handb. 187.*
In rivulets and springs: New England to Virginia. ¼. June, July. *v. v.* *Water-Cress* is found in most countries; I observed it in abundance in the rivulets on the high mountains of the island of Dominica.
- palustre.* 2. *S. siliquis declinatis oblongo-ovatis*, foliis pinnatifidis serratis, petalis calyce brevioribus. *Willd. sp. pl. 3. p. 490.*
S. terrestre. *Smith fl. brit. 2. p. 701.*
Icon. *Fl. dan. 409. Schkuhr handb. 187.*
In inundated and low grounds: Canada to Carolina. ①. July, Aug. *v. v.* Flowers yellow.
- amphibium.* 3. *S. siliquis declinatis oblongo-lanceolatis pinnatifidis serratis*, petalis calyce longioribus. *Willd. sp. pl. 3. p. 491.*
Icon. *Fl. dan. 984.*
In ponds and ditches: Pennsylvania to Virginia. ¼. June, Aug. *v. v.* Flowers yellow.
- Sophia.* 4. *S. foliis pinnato-decompositis subpilosis*, petalis calyce minoribus. *Willd. sp. pl. 3. p. 500.*
Icon. *Fl. dan. 528. Engl. bot. 963.*
On road sides: Virginia; rare. ①. July, Aug. *v. v.* Flowers very small, pale yellow.

536. CLEOME. *Gen. pl.* 1099.

1. *C. floribus gynandris, foliis quinatis, caule inermi.* *pentaphylla.*
Willd. sp. pl. 3. p. 564.
Icon. Jacq. hort. vind. 24. Rheed. mal. 9. t. 24.
 In-cultivated grounds: Pennsylvania and Virginia; rare.
 ☽. July. v. v. Flowers pale red, of a singular
 structure.
2. *C. glabra; floribus hexandris, foliis ternatis, foliolis*
lanceolatis tenuissime serrulatis, racemo elongato,
bracteis linearibus. *serrulata.*
 On the banks of the Missouri. ☽. Aug. v. s. in *Herb.*
Lewis. Flowers pale purple or white.
3. *C. glabrum; floribus dodecandris, foliis ternatis ellipticis,*
floribus axillaribus solitariis.—Willd. sp. pl. 3. p. 566. *dodecandra.*
Icon. Sloan. hist. 1. t. 124. f. 1.
 On the banks of the Mississippi. ☽. July. v. v. Flow-
 ers purple.

XV. MONADELPHIÀ.

I. TRIANDRIA.

537. PHYLLANTHUS. *Cal. 6-partitus, campanulatus. Cor. 0. Styl. 3. bifidi. Caps. 3-locularis. Sem. solitaria. Monoicus.*
538. MELOTHRIA. *Cal. 5-dentatus. Cor. campanulata. Stigm. 3. Bacc. 3-locularis, polysperma.*
539. MOMORDICA. *Cal. 5-fidus. Cor. 5-partita. Styl. 3-fidus. Pepo sicca elastice dissiliens. Sem. compressa. Monoica.*
540. SICYOS. *Cal. 5-dentatus. Cor. 5-partita. Styl. 3-fidus. Pepo monosperma. Monoica.*

II. PENTANDRIA.

541. PASSIFLORA. *Cal. 5-partitus. Pet. 5. calyci inserta. Nectar. corona filamentosa. Styl. 3. Pepo pedicellata.*
542. IRESINE. *Cal. 2-phillus. Pet. 5. Nectar. 5-6-7. Stigm. 2. sessilia. Caps. seminibus tomentosis. Dioica.*
543. ILLECEBRUM. *Cal. 5-phillus, cartilagineus. Cor. 0. Squamulae 5. basi in tubum connatae. Stigma 2-fidum. Caps. 1-sperma, calyce tecta.*
544. GALAX. *Cal. 5-partitus. Pet. 5. imo staminum affixa. Urceolus 10-fidus, laciniis 5. alternis brevioribus, antheriferis. Stigm. 3-lobum. Caps. 3-locularis, 3-valvis, polysperma.*
545. LOBELIA. *Cal. 5-fidus. Cor. 1-petala, irregularis, sepius fissa. Caps. infera, 2-3-locularis.*

III. DECANDRIA.

- 546. GERANIUM.** *Cal. 5-phyllo. Pet. 5. Stam. 10.
Stigm. 5. Arilli 5. monospermi, aristati.*

IV. POLYANDRIA.

- 547. HALESIÀ.** *Cal. 4-dentatus, superus. Cor. 4-fida.
Stam. 8—12. Nux 4-angularis, 2-sperma.*
- 548. STYRAX.** *Cal. subinteger, inferus. Cor. infundibuliformis, 5—7-partita. Stam. 8—16. Drupa 1—2-sperma, coriacea.*
- 549. HOPEA.** *Cal. 5-fidus, superus. Cor. 5-petala.
Stam. multa, connata in 5. corpora. Styl. 1. Drupa nuce 3-loculari.*
- 550. GORDONIA.** *Cal. 5-phyllo. Pet. 5. basi connata.
Styl. 5-gonus, stigmata 5-fido. Caps. 5-locularis.
Recept. centrale, columnare. Sem. bina, ala foliacea.*
- 551. STEWARTIA.** *Cal. 5-partitus. Pet. 5. Styl. 5.
connati s. liberi. Stigm. capitatum, sub-5-lobum.
Caps. 5-locularis, 5-valvis, valvula medio septiferis,
loculis 1—2-spermis. Sem. 1—2. ossea.*
- 552. SIDA.** *Cal. simplex, angulatus. Styl. multipartitus.
Caps. plures, 1-spermæ.*
- 553. CRISTARIA.** *Cal. simplex, 5-fidus. Pet. 5. unguiculata.
Styl. plures. Fructus orbiculato-depressus,
pellucida tecta, dehiscens in Arillos bialatos.*
- 554. MALVA.** *Cal. duplex : exterior 3-phyllo. Pet. 5.
Caps. plurimæ, evales, 1-spermæ.*
- 555. MALOPE.** *Cal. duplex : exterior 3-phyllo. Caps.
absque ordine glomeratae, monospermæ.*
- 556. HIBISCUS.** *Cal. duplex : exterior polyphyllo.
Pet. 5. Caps. 5-locularis, polysperma.*

I. TRIANDRIA.

- 537. PHYLLANTHUS.** *Gen. pl. 1412.*

1. *P. follis obovatis obtusiusculis, floribus geminis axillaribus
pedicellatis, caule erecto ramoso tereti.* Willd. sp. *obovatus.*
pl. 4. p. 574.

MONADELPHIA TRIANDRIA. Phyllanthus.

P. carolinensis. Walt. *fl. car.* 228. *Mich. fl. amer.* 2. p. 209.

In gravelly soil, on the banks of rivers: Pennsylvania to Georgia. ☽. June, July. v. v. About a span or more high; the branches grow regularly in two rows.

538. MELOTHRIA. Gen. pl. 68.

pendula.

1. *M. foliis subreniformibus lobato-angulosis: lobo impari cæteris æquali, bacca cylindraceo-ovata.* *Mi h. fl. amer.* 2. p. 217. *Willd. sp. pl.* 1. p. 189.

Icon. *Pluk. alm. t.* 85. f. 5.

In sandy, wet places, particularly on the islands of large rivers: Virginia to Georgia. ☽. June. v. v. Flowers small, yellow. Fruit the size of a pea, black.

539. MOMORDICA. Gen. pl. 1477.

echinata.

1. *M. pomis tetraspermis subrotundis setoso-échinatis, foliis cordatis 5-lobo-angulatis acuminatis integerrimis glabris.* *Willd. sp. pl.* 4. p. 605.

Sicyos lobata. *Mich. fl. amer.* 2. p. 217.

In the western parts of the United States: On the banks of the Ohio and Mississippi. ☽. July. v. v. Fruit the size of a gooseberry.

540. SICYOS. Gen. pl. 1481.

angulata.

1. *S. foliis angulo obtuso cordatis 5-angularibus denticulatis scabris, fructibus capitatis, hispidis.* — *Willd. sp. pl.* 4. p. 625.

Icon. *Dill. elth. t.* 51. f. 59. *Herm. parad. t.* 133.

On the banks of rivers: Canada to Carolina. ☽. June, July. v. v.

II. PENTANDRIA.

541. PASSIFLORA. Gen. pl. 509.

lutea.

1. *P. foliis cordatis trilobis obtusis glabris, petiolis eglandulosis, pedunculis axillaribus geminis, petalis calyce duplo angustioribus.* *Willd. sp. pl.* 3. p. 615.

Icon. *Cavan. diss.* 10. t. 267. *Jacq. ic.* 3. t. 607.

On the banks of rivers, in shady rocky situations : Virginia to Florida. ♀. June—Aug. v. v. Flowers small, greenish-yellow.

2. *P. foliis peltatis profunde trilobis glabris, lobis linear-lanceolatis divaricatis, petiolis biglandulosis, pedunculis solitariis axillaribus, floribus apetalis.* Willd. sp. pl. 3. p. 617.

Icon. *Cavan. diss.* 10. t. 274. *Pluk. alm.* t. 210. f. 4.

In Virginia and Georgia. ♂. v. s. Flowers of a middle size.

3. *P. foliis trilobis serratis, lobis oblongis acutis, petiolis biglandulosis, involucro triphylo, foliolis lanceolatis glanduloso-dentatis, filis coronæ corolla longioribus.* Willd. sp. pl. 3. p. 621.

Icon. *Cavan. diss.* 10. 293. *Hern. mex.* t. 889. Rob. ic. 193.

On the banks of rivers of Virginia and Carolina. ♀. June—Aug. v. v. Flowers beautiful, blue and variegated.

542. IRESINE. Gen. pl. 1519.

1. *I. foliis punctato-scabris, inferioribus lato-ovalibus, superioribus ovato-lanceolatis, panicula ramosa conferta, caule sulcato.* —Willd. sp. pl. 4. p. 765.

In overflowed grounds, on the banks of rivers : Virginia to Florida. ♂. July, Aug. v. v. Flowers exceeding small.

celosioides.

543. ILLECEBRUM. Gen. pl. 407.

1. *I. caulibus repentibus hirsutis, foliis lato-lanceolatis petiolatis, capitulis orbiculatis nudis sessilibus.* —Willd. sp. pl. 1. p. 1208.

Gomphrena polygonoides. Sp. pl. 225.

I. Achyrantha. Walt. fl. car. 103.

Icon. *Sloan. hist.* 1. t. 86. f. 2.

On the sea-coast : Virginia to Carolina ; plentifully about Charlestown, South Carolina. ♀. June—Aug. v. v. A low creeping plant, with small flowers, in spiny clusters.

2. *I. caulibus repentibus glabris, foliis lato-lanceolatis petiolatis, capitulis orbiculatis pubescentibus.* Willd. sp. pl. 1. p. 1208.

Achyranthes ficoidea. Pers. syn. 1. p. 259.

ficoideum.

Icon. *Jacq. amer. t. 60. f. 4.*

On the sea-coast: Carolina to Florida. 4. July, Aug.
v. v. Resembles the former one.

vermicula-
tum.

3. I. glabrum; caulis repentibus, foliis subteretibus car-
nosis, capitulis solitariis terminalibus oblongis.—*Sp.*
pl. 300.

Gomphrena vermicularis. Willd. sp. pl. 1. p. 1322.

Icon. *Herm. parad. t. 15. Pluk. alm. t. 75. f. 9.*

On the sea-coast: Carolina to Florida. 4. June—Aug.
v. s.

dichotomum.

4. I. caulis suffruticosus diffusus, foliis linearibus planis
acutis margine scabris, cyma dichotoma.—*Willd. sp.*
pl. 1. p. 1196.

In Virginia. h. +. I never saw this plant either liv-
ing or in a dried state.

544. GALAX. *Gen. pl. 382.*

Erythrorhiza. *Mich. fl. amer. 2. p. 34.*

rotundifolia.

1. G. glaberrima; foliis orbiculato-reniformibus dentatis,
spica longissima.

Galax aphylla. Willd. sp. pl. 1. p. 1146.

Blandfordia cordata. Bot. rep. 343.

Solanandra corifolia. Vent. malm. 69.

Erythrorhiza rotundifolia. *Mich. fl. amer. 2. p. 36.*

Icon. *Mich. fl. amer. 2. t. 36. Vent. l. c. Bot. rep. 343.*

On the side of shady hills, near rivulets, in the high
mountains of Virginia and Carolina. 4. May, June.
v. v. Flowers white, in long and close spikes. In
the Virginia mountains this plant is known by the
name of *Carpenter's-leaf*, being used in healing all
kinds of wounds and cuts.

545. LOBELIA. *Gen. pl. 1363.*

Dortmanna.

1. L. foliis radicalibus linearibus recurvis fistulosis bilocula-
ribus integerrimis, scapo simplici subnudo racemoso,
floribus remotis pendulis.—*Willd. sp. pl. 1. p. 938.*

Icon. *Fl. dan. 39. Engl. bot. 140.*

On Hudson's Bay. *Michaux. 4. July, Aug. v. s.*
Flowers light blue.

Kalmii.

2. L. tenuis, erecta, simpliciuscula; foliis radicalibus spa-
thulatis, caulinis linearibus tenuissime denticulatis,
floribus racemosis alternis remotis pedicellatis.—*Willd.*
sp. pl. 1. p. 939.

In low sandy fields and meadows: Canada to Carolina.
♂. ♂. July, Aug. v. v. Flowers small, blue.

3. L. erecta, simplex, subpubescens; foliis oblongis obtusiusculis, radicalibus integerrimis, caulinis superne denticulatis, racemo virgato, bracteis subulatis.—*Claytoniana.*
Mich. fl. amer. 2. p. 153.

Rapuntium foliis villosis mollibus, &c. *Gron. virg. 135.*
L. spicata. *Lam. encycl. 3. p. 587.*

L. goodenoides. *Willd. hort. berol. 30. cum icono.*

In shady woods and on grassy hills: New York to Carolina. ♀. July—Sept. v. v. About eighteen inches high; flowers pale blue, small.

4. L. erecta, glaberrima; foliis lato-lanceolatis serratis, spica multiflora secunda, calycis laciniis integerrimis, corollæ laciniis inferioribus ovalibus acutis.—*Mich. fl. amer. 2. p. 153.*
amaena.

On the mountains of Virginia and Carolina. ♀. July, Aug. v. v. Flowers of a beautiful sky-blue. From two to three feet high.

5. L. erecta, subramosa, subpubescens, lucida; foliis lanceolatis glanduloso-serrulatis subcarnosis, floribus ramentosis brevi-pedunculatis, calycis laciniis revolutis dentatis.—*Walt. fl. car. 218.*
glandulosa.

L. crassiuscula. *Mich. fl. amer. 2. p. 152.*
In pine-swamps: Virginia to Florida. ♀. July, Aug. v. v. From eight inches to a foot high; flowers dark blue.

6. L. erecta, simplicissima, pubescens; foliis oblongo-ovalibus repando-serrulatis, floribus spicatis alternis sessilibus, germinibus hispidis, calycibus ciliatis.—*Mich. fl. amer. 2. p. 152.*
puberula.

In the range of mountains, from Virginia to Carolina. ♀. July, Aug. v. v. From one to two feet high; flowers middle size, sky blue.

7. L. erecta, simplex, birtella; foliis ovato-lanceolatis subserratis, racemo folioso, calycibus hirsutis, sinibus reflexis.—*Willd. sp. pl. 1. p. 945.*
Siphilitica.

Icon. *Rob. ic. 136.* *Jacq. ic. 3. t. 597.*
In low grounds, on the banks of rivers and near springs: New York to Carolina. ♀. July, Aug. v. v. Flowers large, blue. This plant is possessed of great medicinal virtues; on account of which it was introduced into Europe nearly two hundred years ago.

- cardinalis.* 8. L. erecta, simplex, pubescens; foliis ovato-lanceolatis acuminatis eroso-denticulatis, racemo subsecundo multifloro, genitalibus corolla longioribus.—*Willd. sp. pl. 1. p. 944.*
Icon. Bot. mag. 320. Rob. ic. 137. Knorr delic. 2. t. L. 2.
 In swamps and meadows near springs: Canada to Carolina. ♀. July—Sept. v. v. This beautiful plant, with its bright scarlet flowers, rises to the height of from two to four feet. I have seen a white variety of it.
- fulgens.* 9. L. erecta, simplex, subpubescens; foliis elongato-lanceolatis attenuatis subintegerrimis, racemo multifloro, genitalibus longitudine corollæ.—*Donn. catal.*
Icon. Bot. rep. 659.
 On the Mississippi. ♀. June, July. v. v. in Hortis. This species exceeds in splendour of colour and in size the preceding one.
- inflata.* 10. L. erecta, ramosa, hirsutissima; foliis ovatis serratis, racemis foliosis, capsulis inflatis.—*Willd. sp. pl. 1. p. 946.*
 In fields and woods, common: Canada to Carolina. ♂. June—Aug. v. v. Flowers blue, small.
- Cliffortiana.* 11. L. glabra, superne ramosa; foliis petiolatis ovatis crenato-dentatis, infimis suborbiculatis, racemis laxis, pedunculis elongatis.—*Willd. sp. pl. 1. p. 946.*
Icon. Plum. ic. 235. f. 2.
 In old fields: Virginia. ♂. June, July. v. v. Flowers very small, purple.

II. DECANDRIA.

546. GERANIUM. Gen. pl. 1118.

- maculatum.* 1. G. erectum, retrosum pubescens; caule dichotomo, foliis oppositis 3—5-partitis incisis, summis sessilibus, pedunculis elongatis bifloris, petalis obovatis.—*Willd. sp. pl. 3. p. 705.*
Icon. Cavan. diss. 4. t. 86. f. 2. Dill. elth. t. 132. f. 159.
 In shady woods and meadows: Canada to Carolina. ♀. May—July. v. v. Flowers purple, large. This

species is known in some parts of the mountains by the name of *Alum-root*, on account of the astringent taste of its roots, which are very successfully employed in curing the flux among children, which is a disease very prevalent in those countries.

2. *G. diffusum*, pubescens; foliis oppositis 5-lobis, lobis *carolinianum*. trifido-incisis, pedunculis bifloris subfasciculatis, petalis emarginatis longitudine calycis aristati, arillus villosus.—*Willd. sp. pl. 3. p. 711.*

G. laudiniosum. *Jacq. hort. schaenb. 2. t. 140.*

Icon. *Cavan. diss. 4. t. 84. f. 1. ♂ t. 124. f. 2. Dill. elth. t. 135. f. 162.*

In fields: Virginia to Georgia. ♂. June, July. v. v. Flowers small, white, with red veins.

3. *G. diffusum*, pubescens; foliis oppositis 5-partitis, lobis 3-fidis incisis linearibus, pedunculis bifloris elongatis, petalis emarginatis longitudine calycis aristati, arillus pilosus, pilis glandulosis.—*Willd. sp. pl. 3. p. 712.*

Icon. *Cavan. diss. 4. t. 78. f. 2.*

In fields: New York. ♂. June, July. v. v. Flowers rose-coloured, larger than the foregoing one.

4. *G. diffusum*, hirsutum; foliis oppositis ternatis quinatisque trifido-pinnatifidis, pedunculis bifloris, petalis integris calyce aristato duplo longioribus, arillus reticulatis.—*Willd. sp. pl. 3. p. 714.*

Icon. *Fl. dan. 694. Cavan. diss. 4. t. 86. f. 1.*

In shady moist places, on rocks: New York to Virginia; rare. ♂. June—Aug. v. v. Flowers pale red. It is singular, that the American plant has not that heavy scent the European is so well known by, though its other characters agree exactly.

III. POLYANDRIA.

547. HALESIA. *Gen. pl. 814.*

1. *H. foliis ovatis acuminatis argute serratis, floribus dodecandris, fructu subæqualiter rhomboideo-tetraptero.* —*Willd. sp. pl. 2. p. 849.*

Icon. *Bot. mag. 910. Cavan. diss. 6. t. 186. Catesb. car. 1. t. 64.*

tetraptera.

In shady woods, on the banks of rivers: Carolina. ♀. April, May. v. v. A handsome small tree; flowers white, resembling those of Snow-drops, from which it has been called *Snow-drop Tree* or *Silver-bell Tree*.

- diptera.* 2. *H. foliis oblongo-ovatis obtuse-acuminatis membranaceis, floribus octandris, fructu subelliptico, alis alternis majoribus.*—*Willd. sp. pl. 2. p. 849.*

Icon. *Cavan. diss. 6. t. 187.*

In shady forests of Georgia. ♀. April, May. v. v. s. fl.; v. s. in *Herb. Lyon.* Flowers larger than the preceding species.

- parviflora.* 3. *H. fructu inaequaliter subtetraptero clavato floribusque parvulis.*—*Mich. fl. amer. 2. p. 40.*

In Florida near Matanza. *Michaux.* ♀. +.

548. STYRAX. Gen. pl. 753.

grandifolium.

1. *S. foliis lato-ovatis acuminatis subtus tomentosis, racemis multifloris elongatis, pedunculis inferioribus axillaribus solitariis unifloris.*—*Willd. sp. pl. 2. p. 622.*

S. officinale. *Walt. fl. car. 140.*

S. grandiflorum. *Mich. fl. amer. 2. p. 41.*

In woods, on the banks of rivers: Virginia to Georgia. ♀. June—Aug. v. v. A fine ornamental shrub, as the two following likewise are; flowers white.

pulverulentum.

2. *S. foliis subsessilibus ovalibus s. obovatis obtusis subtus pulverulento-tomentosis, floribus axillaribus et subterminalibus brevissime pedicellatis.*—*Mich. fl. amer. 2. p. 41.*

S. laevigatum. *Bot. mag. 921.*

In woods of Virginia and Carolina. ♀. June—Aug. v. v. Resembles the foregoing one. The figure referred to represents the present species, *S. laevigatum* or the following species has to my knowledge not yet been introduced into Europe.

glabrum.

3. *S. foliis ovali-lanceolatis utrinque acutis glabris, pedunculis axillaribus unifloris solitariis binisve.*—*Cavan. diss. 6. t. 188. f. 1.*

S. laevigatum. *Willd. sp. pl. 2. p. 624.*

S. americanum. *Lam. encycl. 1. p. 82.*

S. laeve. *Walt. fl. car. 140.*

In the swamps of Virginia and Carolina. ♀. July, Aug. v. v. Not above three or four feet high; the number of stamens is from six to ten.

549. HOPEA. *Gen. pl.* 1222.

1. *H. foliis oblongo-lanceolatis glaucis, floribus axillaribus aggregatis brevissime pedicellatis.*—*Linn. mant.* 105..
Symplocos tinctoria. *Willd. sp. pl.* 3. p. 1436.
Icon. Mich. arb. t.... Catesb. car. 1. p. 54.
In low woods of Virginia and Carolina. $\frac{1}{2}$. April, May.
v. v. A small tree or shrub, variable in size, of which there is a variety with leaves pubescent underneath; flowers yellow, small, very sweet scented. The leaves dye a very fine yellow, and have a sweet taste; from which circumstance it is known by the inhabitants under the name of *Sweet-leaf*.

550. GORDONIA. *Gen. pl.* 1144.

1. *G. foliis lanceolato-oblongis glaberrimis nitidis coriaceis, floribus longe pedunculatis, capsulis conoideis acuminatis.*—*Willd. sp. pl.* 3. p. 840.
Hypericum Lasianthus. *Sp. pl.* 1101.
Icon. Bot. mag. 668. *Mich. arb. t.... Cavan. diss.* 6. t. 161. *Catesb. car.* 1. t. 44. *Pluk. amalh.* t. 352. f. 3.
In cedar-swamps, near the sea-coast: Virginia to Florida. $\frac{1}{2}$. Aug.—Sept. *v. v.* A beautiful small evergreen tree; flowers white, the size of a rose.
2. *G. foliis obovato-lanceolatis subtus pubescensibus submembranaceis, floribus sessilibus, capsulis sphæricis.*—*Willd. sp. pl.* 3. p. 841.
G. Franklinia. *Willd. sp. pl.* 3. p. 841.
Franklinia Alatamaha. *Marsh. arb.* 48.
Lacathea florida. *Parad. Lond.* 56. cam iconem.
Icon. Cavan. diss. t. 162. *Mich. arb. t....*
On the banks of the Alatamaha, near Fort Barrington, Georgia. $\frac{1}{2}$. Aug. Sept. *v. v.* This elegant tree, whose large white flowers with yellow anthers have a most agreeable appearance, though a native of a very southern latitude, is able to stand a considerable northern climate.

551. STUARTIA. *Gen. pl.* 1142 & 1143.

1. *S. foliis ovatis acutis, floribus axillaribus subbinis, calycibus ovatis obtusis, petalis integris, stylis coalitis.* *virginica.*
S. Malachodendron. *Willd. sp. pl.* 3. p. 840.

Stewartia virginica. *Cavan. diss.* 5. t. 159. f. 2.

Stewartia marilandica. *Bot. rep.* 397.

Icon. *L'Herit. stirp.* 1. t. 73. *Catesb. car.* 3. t. 13.

Duham. arb. 2. t. 78.

In swamps in the lower counties of Virginia and Carolina. $\frac{1}{2}$. July—Sept. v. v. From five to seven feet high, very ornamental; flowers large, white. There are a number of varieties, with more or less serrated leaves, more or less pubescent, &c.

pentagyna.

2. S. foliis ovatis acuminatis, floribus axillaribus solitariis, calycibus lanceolatis calyculatis, petalis undulato-in-cisis, stylis distinctis.—*Willd. sp. pl.* 3. p. 840.

Malachodendron ovatum. *Cavan. diss.* 5. t. 158. f. 2.

Icon. *Exot. bot.* 101. *L'Herit. stirp.* 1. t. 74. *J. Miller. ic.* 3.

In the mountains of Carolina and Georgia. $\frac{1}{2}$. Aug. v. v. This beautiful shrub, whose large flowers are of a cream colour, deserves a place in the collection of every admirer of ornamental shrubs. It has generally been considered as a distinct genus; but I follow Dr. Smith's observations in Exotic Botany, considering it always unnecessary to split a small genus on slight differences, though the same differences might be sufficient reasons for establishing a distinction where the genus is numerous.

552. SIDA. *Gen. pl.* 1129.

spinosa.

1. S. caule patulo, axillis subspinoso, foliis longe petiolatis ovato-lanceolatis obsolete cordatis dentatis, pedunculis solitariis axillaribus, stipulis setaceis pedunculo longioribus, capsulis birostratis.—*Willd. sp. pl.* 3. p. 736.

Icon. *Cavan. diss.* 1. t. 1. f. 9. *Pluk. atm.* t. 9. f. 6.

Among rubbish and on road-sides: Pennsylvania to Carolina. \odot . July, Aug. v. v. Flowers yellow, small.

hispida.

2. S. hispido-pilosa; foliis lanceolatis serratis, pedunculis solitariis axillaribus longitudine petiolorum, calyce exteriore filiformi.

In sandy plains of Georgia. *Lyon.* $\frac{1}{4}$. v. s. in *Herb. Lyon.* Flowers yellow.

rhombofolia.

3. S. foliis oblongo-lanceolatis dentatis basi cuneiformibus integerrimis, pedunculis petiolis multo longioribus, capsulis bicornibus. *Willd. sp. pl.* 3. p. 740.

Icon. *Cavan. diss.* 1. t. 3. f. 12. *Dill. eth.* t. 172. f. 212.

In cultivated grounds and among rubbish : Virginia to Florida. ♂. June—Aug. v. v. Flowers yellow, small.

4. S. foliis oblongo-cordatis acuminatis crenatis summis sessilibus, pedunculis solitariis petiolo longioribus fructiferis deflexis, capsulis inflatis muticis undulato-crispis. *Willd. sp. pl. 3. p. 747.*

Icon. *Cavan. diss. 1. t. 7. f. 1. Dill. elth. t. 5. f. 5.*

On the sea-coast of Carolina. ♂. July—Sept. v. v. Flowers white, small.

5. S. foliis subrotundo-cordatis acuminatis dentatis tomentosis, pedunculis solitariis petiolo brevioribus, capsulis bizaristatis truncatis. *Willd. sp. pl. 3. p. 750.*

Icon. *Schkuhr handb. 190.*

In cultivated grounds : Pennsylvania to Carolina. ♂. July, Aug. v. v. A tall plant; flowers dark yellow.

6. S. foliis cordatis 5-lobis glabris, lobis oblongis acuminatis dentatis, pedunculis multifloris, capsulis muticis acuminatis. *Willd. sp. pl. 3. p. 766.*

Napæa lœvis. Syst. veg. 750.

Napæa hermaphrodita. Sp. pl. 965.

Icon. *Cavan. diss. 5. t. 132. f. 1. Herm. lugd b. t. 23.*

In shady rocky places : Pennsylvania to Virginia; rare. ♀. July—Sept. v. v. From two to four feet high; flowers white.

7. S. foliis 7-lobo-palmatis scabris, lobis lanceolatis inciso-dentatis, floribus dioicis corymbosis bracteatis. *Willd. sp. pl. 3. p. 766.*

Napæa scabra. Syst. veg. 750.

Napæa dioica. Sp. pl. 965.

Icon. *Cavan. diss. 5. t. 132. f. 2. Ehret. pict. 7 & 8.*

In stony ground, in the upper parts of Virginia. ♀. July, Aug. v. v. Flowers white.

8. S. foliis inferioribus triangulo-cordatis incisis, superioribus palmato-multifidis, corymbo terminali, calycibus hispidis. *Mich. fl. amer. 2. p. 44.*

In stony fields of Kentucky, Tennessee, &c. ♀. July, Aug. v. s. Resembles in habit *Malva Alcea*.

crispa.

Abutilon.

Napæa.

dioica.

alcooides.

553. CRISTARIA. *Cavan. ic. 5. p. 10.*

1. C. undique cano-tomentosa et pilis stellatis obsita ; foliis 3—5-fidis, laciniis incisis acutis, racemis terminalibus, caule diffuso.

coccinea.

Malva coccinea. Fraser. catal.

On the dry prairies and extensive plains of the Missouri.

♀. Aug. Sept. v. v.; v. s. in *Herb. Lewis.* Flowers scarlet.

Caulisteres, subpedalis, ramosus, ramis diffusis, tomentosis, pilis stellatis distinctis obsitis, uti tota planta. *Folia* alterna, petiolata, palmato-3—5-partita: lacinii sub-pinnatifido-incisia, lobis sinibusque acutis. *Petiolæ* teretes, longitudine folii. *Stipulae* lineares, erectae, marcescentes. *Flores* terminales, racemosi, coccinei, diametro pollicari. *Calyx* 5-fidus, lacinis lanceolatis acutis. *Petala* 5. oblique cuneato-obcordata, subunguis fasciculato-villosa, calyce duplo longiora. *Filamenta* monadelpha, numerosa, in columnam brevem connata, superne libera, patentia. *Styli* circiter 10. *Fructus* orbiculatus.

The singularly stellated fasciculi of hair, placed on the close tomentum, and its bright scarlet flowers, make this plant particularly interesting.

554. MALVA. *Gen. pl. 1134.*

- | | |
|----------------------|---|
| <i>abutiloides.</i> | 1. M. foliis 5-angulari-lobatis tomentosis, pedunculis sub-4-floris bifidis axillaribus, capsulis polyspermis. <i>Willd. sp. pl. 3. p. 780.</i>
Icon. <i>Jacq. hort. schenck. 3. t. 293. Cavan. diss. 2. t. 16. f. 2.</i>
On the sea-coast of Carolina. ♀. June—Aug. v. v.
Flowers large, purple. |
| <i>caroliniana.</i> | 2. M. foliis 5-lobis palmatisve inciso-dentatis, pedunculis petiolo longioribus, petalis integris, fructu villoso, caule prostrato. <i>Willd. sp. pl. 3. p. 784.</i>
Icon. <i>Cavan. diss. 2. t. 15. f. 1. Dill. elth. t. 4. f. 4. Schkuhr handb. 192.</i>
In fields: Virginia and Carolina. ♂. July—Sept. v. v.
Flowers dark red. |
| <i>rotundifolia.</i> | 3. M. caule prostrato, foliis cordato-orbiculatis obsolete 5-lobis, pedunculis fructiferis declinatis. <i>Willd. sp. pl. 3. p. 786.</i>
Icon. <i>Fl. dan. 721. Cavan. diss. 2. t. 26. f. 3. Schkuhr handb. 1.</i>
In cultivated grounds: Pennsylvania to Virginia. ♀. June—Sept. v. v. Flowers white, small. |

555. MALOPE. *Gen. pl.* 1136.

1. *M. foliis oblongis obtusis integris crenatis supra glabris, pedunculis solitariis axillaribus.* — *Willd. sp. pl.* 3. p. 799. *malacoides*

Icon. *Cavan. diss.* 2. t. 27. f. 1. *Sabb. hort.* 1. t. 50. *Rob. ic.* 189.

In Carolina. *Walter.* O. +. Though I doubt of this plant having been found in America, yet it is worth drawing the attention of the botanist to find out what *Walter* means by it.

556. HIBISCUS. *Gen. pl.* 1139.

1. *H. foliis ovatis acuminatis serratis subtrilobis sub-5-nervibus subtus incano-tomentosis, pedunculis floriferis, calycibus tomentosis, capsulis glabris.* — *Willd. sp. pl.* 3. p. 806. *Moscheutos*

H. palustris. *Walt. fl. car.* 176.

Icon. *Cavan. diss.* 3. t. 65. f. 1. *Bot. mag.* 882. sub *H. palustri.*

In swamps and salt-marshes: New York to Carolina; plentifully in the marshes round the Salt-lake, Onondago, New York. ¼. Aug.—Oct. v. v. Flowers large, white, with a purple bottom, or sometimes pale purple.

2. *H. foliis lato-ovatis obtuse-serratis subtrilobis 3-nervibus subtus tomentosis, pedunculis axillaribus petiolo longioribus.* — *Willd. sp. pl.* 3. p. 808. *palustris.*

Icon. *Cavan. diss.* 3. t. 65. f. 2.

In swamps and marshes: Canada to Virginia. ¼. Aug.—Oct. v. v. Flowers large, purple. This plant has been generally confounded with the former, but is very distinct.

3. *H. foliis amplis coriaceis triangulo-cordatis trilobis grandiflorus.* utrinque eximie tomentosis subtus incanis, capsulis tomentoso-hirsutissimis subtruncatis. — *Mich. fl. amer.* 2. p. 46.

In salt-marshes of Georgia and Florida, and on the banks of the Mississippi. ¼. Aug.—Oct. v. v. Flowers very large, flesh-coloured, with a red bottom; the fructifications yellow.

4. *H. foliis ovatis acuminatis obtuse serratis utrinque incano-tomentosis, pedunculis axillaribus, calycibus tomentosis subequalibus.* — *Willd. sp. pl.* 3. p. 807. *incanus.*

Icon. *Wendl. hort. herrenh.* 4. t. 24. *Bartr. ic. ined.* in *Mus. Banks.*

In Carolina. ♀. Sept. +. Flowers very large, sulphur-coloured.

esculentus. 5. *H. foliis cordatis 5-lobis obtusiusculis dentatis, petiolis flore longioribus, calycibus exterioribus subdecaphyllis deciduis, interioribus longitudinaliter rumpentibus.* *Willd. sp. pl.* 3. p. 827.

Icon. *Cavan. diss.* 3. t. 61. f. 2. *Comm. hort.* 1. t. 19.

In cultivated grounds: Virginia and Carolina. ♂. June —Sept. v. v. Flowers yellow. It is generally cultivated by the name of *Okra* for the sake of its unripe capsules, which give a fine dish for the table.

virginicus. 6. *H. undique tomentosus, asper; foliis acuminatis inæquilater dentatis, inferioribus cordatis indivisis, superioribus cordatis oblongis trilobis, pedunculis axillaribus et racemoso-terminalibus, floribus cernuis, pistillis nuntibus.* *Willd. sp. pl.* 3. p. 831.

H. clypeatus. *Walt. fl. car.* 177.

Icon. *Jacq. ic. rar.* t. 142. *Pluk. phyt.* t. 6. f. 4.

In salt-marshes, on the sea-coast: New Jersey to Carolina. ♀. Aug. Sept. v. v. Flowers small, rose-coloured.

militaris. 7. *H. glaberrimus; foliis 3-lobo-hastatis acuminatis serratis, corolla tubulato-campanulata, capsulis ovatis acuminatis glabris, seminibus holosericeis.* —*Willd. sp. pl.* 3. p. 808.

H. laevis. *Scop. del. insub.* 3. t. 17.

H. virginicus. *Walt. fl. car.* 177.

H. hastatus. *Mich. fl. amer.* 2. p. 45.

H. riparius. *Pers. syn.* 2. p. 254.

Icon. *Scop. del. insub.* 3. t. 17. *Cavan. diss.* 6. t. 198. f. 2.

On the banks of rivers in Louisiana and the western parts of Pennsylvania and Carolina. ♀. Aug. Sept. v. v. Flowers purple, large.

speciosus. 8. *H. glaberrimum; foliis palmato-5-partitis, laciniis lanceolatis acuminatis apice remote serratis, calycibus exterioribus decaphyllis, corolla patula, capsula glabra 5-gono-ovata.* —*Willd. sp. pl.* 3. p. 822.

H. coccineus. *Walt. fl. car.* 177.

Icon. *Bot. mag.* 360. *Wendl. hort. herrenh.* t. 11.

On the banks of rivers of South Carolina and Florida. ♀. Aug. Sept. v. v. A most elegant perennial.

nial. When in high perfection, the stem will rise to more than eight feet, and the deep scarlet flowers grow to a larger size than any other Hibiscus I know.

9. *H. caule petiolisque ineribus, foliis palmato-digitatis 7-partitis, lacinia linearibus, pedunculis hispidis, calyce exteriore 1-phyllo, interiore hinc lacero, capsula hirsutissima pyramidata.*—*Willd. sp. pl. 3. p. 825.*

Icon. *Cavan. diss. 3. t. 63. f. 2. Dill. eth. t. 156. f. 189.*

On the banks of the Mississippi. $\frac{3}{4}$. July—Sept. v. v.

Flowers sulphur-yellow, with a purple bottom, very large when in rich soil.

10. *H. caule scabro, foliis asperis basi truncatis circumscriptione subrotundis, superioribus palmatis, lobis superne dilatatis crenatis, floribus subsessilibus, calycibus hispidissimis exteriore furcellato.* *Mich. fl. amer. 2. p. 45.*

H. aculeatus. Walt. fl. car. 177.

Near the sea-coast, in marshes: Carolina to Florida. $\frac{3}{4}$.

July—Sept. v. v. Flowers very handsome and large, bright yellow with a dark purple bottom.

Manihot.

scaber.

XVI. DIADELPHIA.

I. PENTANDRIA.

557. PETALOSTEMUM. *Per.* 4. staminibus interjecta : ultraque in tubum fissum connata. *Vexillum* nullum, ejus loco quantum petalum. *Legum.* calyce tectum, 1-spermum.

II. HEXANDRIA.

558. CORYDALIS. *Cal.* diphyllos. *Cor.* riagens. *Filam.* 2. membranacea, singula *Antheris* 3. *Caps.* siliquosa, polysperma.
559. FUMARIA. *Cal.* diphyllos. *Cor.* irregularis, basi calcarea. *Filam.* 2. singula *Antheris* 3. *Caps.* 1-locularis, evalvis, 1-sperma.

III. OCTANDRIA.

560. POLYGALA. *Cal.* 5. phyllus : foliolis duobus alae-formibus, coloratis. *Caps.* obcordata, 2-locularis, 2-valvis.

IV. DECANDRIA.

* *Stamina omnia connexa.*

561. AMORPHA. *Cal.* campanulatus, 5-fidus. *Cor.* vexillum ovatum, concavum. *Alæ* Carinaque nullæ. *Legum.* 2-spermum, falcatum.
562. ERYTHRINA. *Cal.* 2-lobatus. *Cor.* vexillum longissimum, lanceolatum. *Legumen* torulosum.
563. LUPINUS. *Cal.* 2-labiatus. *Anth.* 5. oblongæ, 5. subrotundæ. *Legum.* coriaceum.
564. CROTALARIA. *Cor.* vexillum cordatum, magnum, carina acuminata. *Filam.* connata cum fissura dorsali. *Legum.* pedicellatum, turgidum.

** *Stigma pubescens*. (Nec priorum notæ.)

565. PHASEOLUS. *Cariæ cum Staminibus Styleque spiraliter torta.*
566. DOLICHOS. *Vexilli basis callis 2. parallelis oblongis, alos subitus comprimentibus.*
567. PISUM. *Cal. laciniae foliacæ æquales. Vexillum plicas 2. protrudens. Stylus compressus, carinatus, supra villosus. Legum. ad suturas nudum.*
568. LATHYRUS. *Cal. laciniae superiores 2. breviores. Stylus planus, supra villosus, superne latior.*
569. VICIA. *Cal. superne emarginatus, 2-dentatus, inferne dentibus 3. rectis longis. Vexillum emarginatum. Stigma latere inferiore transverse barbatum.*

*** *Legumen subbiloculare*. (Nec priorum.)

570. ASTRAGALUS. *Carina obtusa. Legum. biloculare aut subbiloculare, suture inferiore introflexa.*
571. OXYTROPIA. *Carina in mucronem superne desinens. Legum. biloculare aut subbiloculare, suture superiore introflexa.*
572. APIOS. *Cal. campanulatus, bilabiatus. Carina vexillum reflectens. Appendix: tubulus ex centro disci, denticulatus, vaginans basin stipitis germinali. Legumen coriaceum, biloculare, dissepimento seminibus interceptum.*

**** *Legmina submonosperma*. (Nec priorum.)

573. DALEA. *Cal. glandulosus, subsemi-5-fidus. Alæ et Carina columnæ staminum aduentæ. Vexill. breve. Stam. omnia connata. Legum. 1-spermum, calyx brevius.*
574. PORALEA. *Cal. longitudine leguminis. Stam. diadelpha. Legum. 1-spermum, subrostratum, evalve.*
575. MELILOTUS. *Cal. tubulosus, 5-dentatus. Carina simplex, alis et vexillo brevior. Legum. calyx longius, rugosum. Flores racemosi.*
576. TRIFOLIUM. *Legum. calyx tectum, evalve, 2—4-spermum. Flores subcapitati.*
577. LUPINASTER. *Cal. campanulatus, 5-dentatus, dentibus setaceis, uno sub carina. Stigma uncinatum. Legum. enode, teres, polyspermum.*
578. STYLOSANTHES. *Cal. tubulosus, longissimus, collifer. Germen sub corolla. Lomentum 1-2-articulatum, bamatum.*

579. GLYCYRRHIZA. *Cal.* 2-labiatus, basi gibbus. *Cor.* vexillum alas et carinam includens. *Legum.* ovatum, compressum, hispidum, 2—4-spermum.

580. LESPEDEZA. *Cal.* 5-partitus, laciinis subæqualibus. *Cor.* carina transverse obtusa. *Legum.* lenticulare, inerme, 1-spermum.

***** *Legumen in articulos secedens.* (Nec priorum.)

581. HEDYSARUM. *Cal.* 5-fidus. *Cor.* carina transverse obtusa. *Lomentum* pluri-articulatum : articulis 1-spermis, compressis, utplurimum hispidis.

582. ZORNIA. *Cal.* campanulatus, 2-labiatus. *Vexillum* cordatum, revolutum. *Antheræ* alternæ oblongæ, alternæ globosæ. *Lomentum* articulatum, hispidum.

583. AESCHYNOMENE. *Cal.* bilabiatus. *Lomentum* compressum, sutura altera recta, altera lobata, articulis truncatis, 1-spermis.

584. SESBANIA. *Cal.* dentibus subæqualibus. *Legum.* elongatum, subcylindricum, 2-valve.

***** *Legumen uniloculare polyspermum.* (Nec priorum.)

585. GLYCINE. *Cal.* bilabiatus : dente labii inferioris longiore. *Cor.* carina apice vexillum reflectens. *Stylus* incurvus. *Legum.* oblongum, compressum.

586. GALACTIA. *Cal.* 4-dentatus, 2-bracteatus. *Petala* omnia oblonga, vexillo latiore incumbente. *Stigm.* obtusum. *Legum.* teres. *Sem.* subrotunda.

587. CLITORIA. *Cal.* tubuloso-campanulatus. *Cor.* resupinata : vexillo maximo, patente, alas obumbrante. *Legum.* lineare, longissimum, acuminatum.

588. ROBINIA. *Cal.* 4-fidus, lacinia superiore bipartita. *Vexillum* reflexo-patens, subrotundum. *Legum.* gibbum, elongatum.

589. INDIGOFERA. *Cal.* patens. *Cor.* carina utrinque calcari subulato patulo. *Legum.* lineare, parvulum, teres, subquadrangulare.

590. TEPHROSIA. *Cal.* dentibus subulatis, subæqualibus. *Stam.* monadelpha. *Legum.* compressum, subcoriaceum.

591. LOTUS. *Cal.* tubulosus. *Alæ* sursum longitudinaliter conniventes. *Filam.* cuneiformia. *Legum.* cylindricum, strictum.

592. MEDICAGO. *Carina* corollæ a vexillo deflectens. *Legum.* compressum, cochleatum.

I. P E N T A N D R I A.

557. PETALOSTEMUM. *Mich. fl. amer. 2. p. 48.*

Dalea. *Juss. gen. pl. 392.*

1. *P. spica cylindrica pedunculata, bracteis flore longioribus, calycibus glabris, foliis trijugis lanceolatis.* — *Mich. fl. amer. 2. p. 49.* *candidum.*
Dalea candida. Willd. sp. pl. 3. p. 1337.
Icon. Mich. l. c. t. 37. f. 1.
 In Tennessee, Illinois, and on the banks of the Missouri.
 4. July, Aug. v. s. in *Herb. Lewis.* &c. Flowers white.
2. *P. spica cylindrica pedunculata, bracteis subulatis longitidine calycis, bracteolis setaceis persistentibus, calycibus glabris, foliolis lanceolatis.* — *Mich. fl. amer. 2. p. 49.* *carneum.*
 In pine-barrens of Georgia and Florida. 4. July, Aug. v. s. in *Herb. Enslen.* &c.
3. *P. spica cylindrica pedunculata, bracteis calycem subæquantibus, bracteolis spatulatis deciduis, calycibus sericeis, foliis bijugis linearibus.* — *Mich. fl. amer. 2. p. 50.* *violaceum.*
Dalea violacea. Willd. sp. pl. 3. p. 1337.
Icon. Mich. l. c. t. 37. f. 2.
 In Tennessee, Illinois, and on the banks of the Missouri.
 4. July—Sept. v. v. A beautiful plant; the close spikes are of a delicate rose-purple.
4. *P. spicis cylindricis pedunculatis terminalibus, bracteis calyce brevioribus, calycibus villosis, foliis sub-10-jugis ellipticis retusis mucronatis.* *alopecuroides.* *alopecuroides.*
Dalea alopecuroides. Willd. sp. pl. 3. p. 1336.
 In Georgia and Florida. 4. July, Aug. v. s. in *Herb. Enslen.* Flowers pale blue.
5. *P. capitulis squamoso-involucratis, pedunculis paniculato-corymbosis, calycibus plumositis, foliolis linearibus mucicis.* — *Mich. fl. amer. 3. p. 50.* *corymbosum.*
Dalea Kuhnistera. Willd. sp. pl. 3. p. 1337.
Kuhnistera carolinensis. Lam. encycl. 3. p. 371.
Kuhniae affinis pinnata. Walt. fl. car. 103.
 In pine-barrens of Carolina and Georgia. 4. June—

Aug. v. v. Flowers white. This singular plant appears, at first sight, to belong to the class Syngenesia, and certainly is the connecting link between that class and the present.

II. HEXANDRIA.

558. CORYDALIS. *Vent. choix de pl.* 19.

Fumaria. Gen. pl. 1154.

* *Corollis bicalcaratis. Perizomanthi.*

Cucullaria. 1. C. scapo nudo, racemo simplici secundo, nectariis divaricatis longitudine corollæ, stylo inclusu, radice bulbosa.
—*Pers. syn.* 2. p. 269.

Fumaria Cucullaria. Willd. sp. pl. 3. p. 857.

Icon. Bot. mag. 1127. *Rob. ic.* 222. *Pluk. alm.* t. 90. f. 3.

On the side of shady hills, in rich vegetable mould, among rocks: Canada to Virginia, Ʌ. May. v. v. Flowers white, with a yellow mouth. This singularly constructed flower is known among the inhabitants by the name of *Breeches-flower* or *Yellow-breeches*: and as I consider that all those species with two spurs or nectaries might form, with propriety, a good genus, I have given it the name of *Perizomanthus*.

formosa. 2. C. scapo nudo, racemo subcomposito nutante multifloro, nectariis brevissimis incurvis, stylo porrecto, lacinias foliorum oblongis inciso-pinnatifidis, radice tuberosa.

Icon. Bot. rep. 393. *Bot. mag.* 1335. sub *Fumaria*. In Canada, and on the highest peaks of the Virginia and Carolina mountains, in the cliffs of shady rocks. Ʌ. May—July. v. v. Flowers a lively bright red. This elegant perennial deserves a place in every collection. The Canada plant is somewhat different in aspect from the Virginian, but not sufficiently distinct to make it a species.

tenuifolia. 3. C. scapo nudo, racemo simplici nutante paucifloro, nectariis brevissimis incurvis, stylo longe exerto, foliis tenuissime laciniatis, radice tuberosa.

On the north-west coast. Ʌ. June. v. s. in *Herb.*

Lambert specimen Pallasianum. Flowers of nearly the same shape and colour as the foregoing species.

4. C. caule scandente, foliis cirrhosis, racemis axillaribus corymbosis cernuis, corollis monopetalis basi bigibbis.—*Pers. syn. 2. p. 269.*

Fumaria fungosa. *Willd. sp. pl. 3. p. 857.*

Fumaria recta. *Mich. fl. amer. 2. p. 51.*

In moist and shady places, in the beech-woods of Canada and Pennsylvania. ♂. June—Sept. v. v. A delicate twining plant; flowers pale red and in great abundance.

** *Corollis uniculcaratis.*

5. C. caule ramoso erecto, foliis glaucis, caulinis bibernatis, racemis subcorymbosis, bracteis minutis, siliquis linearibus pedunculo triplo longioribus.—*Pers. syn. 2. p. 269.*

Fumaria sempervirens. *Willd. sp. pl. 3. p. 863.*

Icon. *Bot. mag. 179.* *Corn. canad. 57.*

In the cliffs of rocks, in Canada, and on the Allegany mountains. ♂. June—Aug. v. v. Flowers very handsomely variegated with yellow, red, and green.

6. C. caule ramoso diffuso, foliis bipinnatis, folioidis partitis linear-lanceolatis utrinque acutis, racemis secundis, bracteis lato-lanceolatis subdenticulatis, siliquis teretibus turgidibus pedunculo duplo longioribus.—*Willd. enum. 740.*

On shady rocks: Pennsylvania to Virginia. ♂. May—July. v. v. Flowers bright yellow; the leaves and the size of the flowers resemble those of the preceding species.

559. FUMARIA. *Gen. pl. 1154.*

1. F. caule ramoso diffuso, foliis supradecompositis, foliolis cuneiformi-lanceolatis incisis.—*Willd. sp. pl. 3. p. 867.*

Icon. *Fl. dan. 940.* *Engl. bot. 589.*

In cultivated grounds: Pennsylvania to Virginia; rare. ♂. May—Aug. v. v. Flowers small, red, mixed with green.

fungosa.

glaucia.

aurea.

officinalis.

III. OCTANDRIA.

560. POLYGALA. *Gen. pl. 1154.*

* *Cristatae*. Floribus appendice penicilliformi.

- incarnata*. 1. P. caule simpliciusculo erecto, foliis sparsis subulatis, spicis ovali-oblongis, corollis tubo gracili elongato.—*Willd. sp. pl. 3. p. 871.*

In low sandy fields and on the edge of rivulets : Jersey to Carolina. ♂. June, July. v. v. A delicate little plant ; flowers of a bright flesh-colour.

- rubella*. 2. P. pubescens ; caule simplici erecto, foliis angusto-lanceolatis acutis, racemo terminali, bracteis subulatis solitariis caducis, alis calycinis nervoso-venosis truncato-rotundatis corolla longioribus.

P. rubella. *Willd. sp. pl. 3. p. 875?*

In woods and on dry shady hills : Pennsylvania to Georgia. ♀. June, July. v. v. Flowers pale red. This species approaches near to *P. vulgaris*. Whether Willdenow's plant is the same or not, I am not able to determine ; but I strongly suspect he had but an imperfect specimen, in which the very minute bracteæ had disappeared. If his specimen has come from Dr. Muhlenberg, it certainly is the same plant.

- paucifolia*. 3. P. pumila, grandiflora ; caulibus simplicissimis erectis inferne nudis, foliis ovatis acutis glabris, floribus terminalibus subternis.—*Willd. sp. pl. 3. p. 880.*

In sphagnum swamps and bogs : Pennsylvania to Virginia ; principally on the mountains. ♀. May—Aug. v. v. Not above three or four inches high ; flowers the largest of those mentioned here, about the size of *P. myrtifolia*, of a fine pale red colour.

** *Imberbes*.

- uniflora*. 4. P. pumila ; caulibus simplicissimis erectis inferne nudisculis, foliis paucis lato-ovatis in petiolum angustatis, floribus solitariis sparsis pedicellatis nutantibus.—*Mich. fl. amer. 2. p. 53.*

On the banks of lake Ontario. *Michaux.* ♀. +.

- Senega*. 5. P. caulibus erectis simplicissimis foliosis, foliis alternis lanceolatis, spica terminali filiformi, floribus alternis, *Willd. sp. pl. 3. p. 894.*

Icon. Bot. mag. 1051. Mill. dict. 3. t. 5. Amaen. acad. 2. t. 2.

- α . P. foliis lanceolatis, vel ovalibus, spica confertiuscula, floribus albidis subsessilibus.—*Mich. fl. amer. 2. p. 53.*
 β . P. glabella vel pubescens; foliis linear-lanceolatis, spica laxiuscula alterniflora, floribus roseis.—*Mich. fl. amer. 2. p. 53.*

On the side of hills and in dry woods: α . Canada and throughout the Allegany mountains. β . in Carolina and Georgia. $\textcircled{1}$. June—Aug. v. v. This is the famous *Seneca Snake-root*, formerly so celebrated for the bite of rattle-snakes; but other more efficacious remedies have supplanted it. Vid. *Prenanthes* and *Liatris*.

6. P. caule simplici vel ramoso; foliis radicalibus infimisque spatulatis, cæteris lanceolatis, spica cylindraceo-capitata confertiflora pedunculata.—*Willd. sp. pl. 3. p. 894.*

Icon. Pluk. amalh. t. 438. f. 6.

- α . P. caule subvirgatum elatiore.
 β . P. subacaulis, foliis omnibus spatulatis, capitulo majore.

In wet woods and bogs: New Jersey to Florida. β . in low meadows of Carolina. $\textcircled{1}$. δ . July, Aug. v. v. A fine species; flowers of a golden yellow; the var. β . does not grow above three or four inches high.

7. P. caule erecto simplicissimo, foliis linear-lanceolatis obtusiusculis, capitulo terminali globoso-capitato.—*Willd. sp. pl. 3. p. 895.*

In dry woods: Pennsylvania to Carolina. $\textcircled{1}$. July, Aug. v. v. Flowers greenish-white, with some red. In general habit it resembles *P. incarnata*.

8. P. caule setaceo subaphyllo simplici, summitate subramoso, foliis parvis setaceis sparsis, floribus minutis dense spicatis.—*Mich. fl. amer. 2. p. 52.*

In Carolina and Georgia. $\textcircled{1}$. July, Aug. v. s. in Herb. Lyon.

9. P. caule erecto summitate corymboso-ramoso, foliis alternis linearibus, spicis capitatis, pedunculis squarrosis.—*Willd. sp. pl. 3. p. 896.*

Icon. Pluk. mant. t. 438. f. 5.

In woods on the side of hills: New England to Carolina. $\textcircled{1}$. July, Aug. v. v. Flowers rose-coloured.

10. P. caule a basi ramoso, foliis alternis ellipticis obtusis basi attenuatis, spicis terminalibus oblongis, floribus alter-

albida.

rosea.

lutea.

elatior.
nana.

viridescens.

setacea.

sanguinea.

polygama.

nis pedunculatis, spicis inferioribus depressis apetalis.
—Walt. fl. car. 179.

In the pine-barrens of Carolina. ♂. July, Aug. v. s.
Calyx greenish-white, with pale yellow petals.

verticillata. 11. P. caule erecto ramoso, foliis verticillatis linearibus, spicis setaceis pedunculatis, floribus distincte alternis approximatis.—Willd. sp. pl. 3. p. 897.

Icon. Pluk. mant. t. 438. f. 4.

On the sides of dry hills and in pine-woods : New York to Carolina. ♂. June—Aug. v. v. Flowers very small, white, or sometimes pale red.

cruciata. 12. P. caule erecto ramoso alato-anguloso, foliis quaternis linear-lanceolatis, capitulis spicatis sessilibus.—Willd. sp. pl. 3. p. 897.

In wet places, on the edge of bogs and rivulets ; Canada to Carolina. ♂. July—Sept. v. v. Flowers red mixed with green.

IV. DECANDRIA.

561. AMORPHA. Gen. pl. 1170.

fruticosa. 1. A. glabra, subarborescens ; foliis petiolatis, spicis aggregatis elongatis, calycibus nudiusculis pedicellatis, dentibus 4. obtusis, unico acuminato, leguminibus oligospermis.—Willd. sp. pl. 3. p. 970.

Icon. Schmidt arb. 30. Schkuhr handb. 197. Hort. cliff. t. 19. Mill. ic. 27. Duham. arb. t. 46.

vulgaris. α. A. foliis mucronatis, calycibus glabris.

β. A. foliis emarginatis, calycibus canis.

γ. A. foliis linear-ellipticis basi subacutis.

On the banks of rivers : Carolina and Florida. ♀. June, July. v. v. Var. γ. v. s. in Herb. Lewis. A shrub from nine to twelve feet high. Flowers of a very fine blue, in close and long spikes. It is generally known by the name of *Wild Indigo*. The leaves, as in all the following species, are beset with glands, which are transparent.

microphylla. 2. A. glabriuscula, pumila; foliis brevissime petiolatis utrinque obtusis, spicis solitariis abbreviatis, calycibus nudiusculis pedicellatis, dentibus omnibus acuminatis, leguminibus monospermis.

A. nana. *Fraser. catal.* 1813.

On the banks of the Missouri. $\frac{1}{2}$. July, Aug. v. s.
in Herb. Lewis. From one to two feet high; flowers
purple and fragrant. A very elegant little shrub.

3. *A. humilis*, frutescens; foliis brevissime petiolatis sine. *pubescens*.
mucrone utrinque obtusis glabriusculis, spicis panicu-
latis elongatis pubescentibus, calycibus subsessilibus,
dentibus omnibus acuminatis.—*Willd. sp. pl. 3.*
p. 970.

A. herbacea. *Walt. fl. car.* 179.

A. pumila. *Mich. fl. amer.* 2. *p. 64.*

In sandy dry fields: Carolina and Georgia. $\frac{1}{2}$. June,
July. v. v. From two to three feet high; flowers a
fine blue, smaller than No. 1.

4. *A. undique cano-tomentosa*, *humilis*; foliolis approxi-
mati subsessilibus ovato-ellipticis acutis mucronatis,
spicis paniculatis cano-tomentosis, calycibus sessilibus,
dentibus omnibus acuminatis. *canescens*.

On the banks of the Missouri and Mississippi. $\frac{1}{2}$. July,
Aug. v. v. Resembles the foregoing one very much;
flowers of a more beautiful blue.

562. ERYTHRINA. Gen. pl. 1163.

1. *E. pumila*; foliis ternatis rhomboides glabris, spicis lon-
gissimis, caule herbaceo inermi.—*Willd. sp. pl. 3.*
p. 912.

Icon. Bot. mag. 877. *Trew. ehret. t. 58.* *Catesb. car.* 49.
Dill. elth. t. 90. f. 106.

In sandy woods and fields: Carolina and Florida. $\frac{1}{2}$.
June, July. v. v. A beautiful perennial; flowers
scarlet.

563. LUPINUS. Gen. pl. 1176.

1. *L. perennis*, *repens*; caule foliisque glabriusculis, foliis
digitatis: foliolis (8-9) lanceolatis obtusis acutis, caly-
cibus alternis inappendiculatis: labio superiore emar-
ginato; inferiore integro.—*Willd. sp. pl. 3. p. 1022.*
Icon. Bot. mag. 202. *Mill. dict. t. 170. f. 1.*

On dry hills, in gravelly soil: Canada to Florida. $\frac{1}{2}$.
May—July. v. v. Flowers blue, purple, and some-
times white.

2. *L. perennis*; caule foliisque hirsutis, foliis digitatis: *nootkatensis*.
foliolis (7-8) lanceolatis obtusis, calycibus verticillatis

inappendiculatis : labio superiore emarginato, inferiore integro.—*Donn. catal. hort. cantab.*

Icon. Bot. mag. 1311.

On the north-west coast. *Menzies.* $\frac{1}{4}$. June, July. *v. s. in Herb. Lambert.* This stately perennial approaches near to the foregoing one in its general character, but the flowers are larger and beautifully variegated. In the Herbarium of A. B. Lambert, Esq. is a specimen from Professor Rudolph, of St. Petersburg, collected in Unalashka, under the name of *L. regius*, decidedly the same with the present species, the name of which sufficiently shows the grandeur of this plant in its native state.

sericeus.

3. *L. perennis*; caule foliisque sericeo-tomentosis, foliis digitatis: foliolis (7-8) lanceolatis acutis utrinque sericeis, calycibus subverticillatis inappendiculatis: labio superiore inciso; inferiore integro.
On the banks of the Kooskoosky. *M. Lewis.* $\frac{1}{4}$. July. *v. s. in Herb. Lewis.* Flowers pale purple, or rose-coloured.

argenteus.

4. *L. perennis*; foliis digitatis: foliolis (5-7) linear-lanceolatis acutis supra glabris subtus argenteo-sericeis, calycibus alternis inappendiculatis: labio superiore obtuso; inferiore integro.
On the banks of the Kooskoosky. *M. Lewis.* $\frac{1}{4}$. June, July. *v. s. in Herb. Lambert.* Flowers small, cream-coloured.

pusillus.

5. *L. biennis*, *pusillus*, undique pilis longis albidis hirsutissimus; foliis digitatis: foliolis (7) linear-ellipticis supra glabris, calycibus alternis inappendiculatis: labio superiore bipartito; inferiore integro, leguminibus subdispermis.

On the banks of the Missouri. δ . June. *v. s. in Herb. Lewis.* Flowers small, a fine blue mixed with some red.

villosum.

6. *L. perennis*, *villosum*; foliis simplicibus oblongis, spicis elongatis, calycibus alternis inappendiculatis: labio superiore bifido; inferiore integro elongato.—*Mich. fl. amer. 2. p. 56.*

L. pilosus. *Walt. fl. car.* 180.

In dry sandy fields: Carolina and Florida. $\frac{1}{4}$. June—Aug. *v. v.* A beautiful perennial, but very shy of cultivation; flowers very variable in colour: white, rose red, and purple.



Lupinus villosus.

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564. CROTALARIA. *Gen. pl. 1172.*

1. *C. hirsuta*, erecta, ramosa ; foliis simplicibus oblongo-lanceolatis, stipulis lanceolatis acuminatis decurrentibus, racemis oppositifoliis subtrifloris, corollis calyce minoribus.—*Willd. sp. pl. 3. p. 972.*
C. sagittalis β . oblonga. *Mich. fl. amer. 2. p. 55.*
In pine-barrens : Virginia to Georgia. ☽. July. v. v.
Flowers, as all the following, yellow.
2. *C. hirsuta*, erecta, ramosa ; foliis simplicibus linear-lanceolatis, stipulis superioribus decurrentibus brevissime bidentatis, racemis oppositifoliis, corollis calyce minoribus.—*Willd. sp. pl. 3. p. 973.*
C. sagittalis α . linearis. *Mich. fl. amer. 2. p. 55.*
In sandy fields : New York to Carolina. ☽. June, July.
v. v.
3. *C. hirsuta*, diffusa, ramosa ; foliis simplicibus petiolatis subrotundo-ovalibus, stipulis summis vix decurrentibus brevissimis, racemis oppositifoliis elongatis, corollis calycem æquantibus.
C. sagittalis γ . ovalis. *Mich. fl. amer. 2. p. 55.*
Anonymos rotundifolia. *Walt. fl. car. 181.*
In pine-barrens of Carolina and Georgia. ☽. June, July.
v. s. in *Herb. Enslen.*
4. *C. glabra*, erecta, simplex ; foliis lanceolato-oblongis, stipulis lanceolatis acuminatis decurrentibus, racemis oppositifoliis subtrifloris.
C. sagittalis glabra, longioribus foliis, americana. *Pluk. alm. 122. t. 277. f. 2.*
In pine-woods of Virginia and Carolina. ☽. July. v. v.

565. PHASEOLUS. *Gen. pl. 1180.*

1. *P. volubilis*, totus pubescens ; foliolis lato-ovatis impari subcordato, racemis geminatis folio longioribus, pendulis geminatis, bracteis obovatis, leguminibus pendulis.—*Willd. sp. pl. 3. p. 1031. Walt. fl. car. 182.*
P. paniculata. *Mich. fl. amer. 2. p. 60.*
Dolichos polystachyos. *Willd. sp. pl. 3. p. 1049.*
On the side of fertile hills, near the banks of rivers, among rocks : Pennsylvania to Carolina. 4. July, Aug.
v. v. ; v. s. in *Herb. Gronov.* Flowers purple, in great abundance, which gives this plant a very ornamental appearance.

- vexillatus.* 2. *P. volubilis*, pubescens ; pedunculis petiolo crassioribus capitatis, alis subfalcatis difformibus, leguminibus linearibus strictis. *Willd. sp. pl. 3. p. 1032.*
Icon. Jacq. hort. t. 102. *Dill. eth. t. 234. f. 302.*
 On the sea-coast of Carolina and Georgia. ☽. July, Aug. v. v. Flowers large, purple.
- helvolus.* 3. *P. volubilis*, perennis, hirtellus ; foliolis oblongo-ovalibus subdeltae obtususcule, capitulis longe pedunculatis, vexillis brevibus, alis expansis maximis, leguminibus tereti-linearibus.—*Willd. sp. pl. 3. p. 1032.*
Glycine umbellata. *Willd. sp. pl. 3. p. 1058.*
Icon. Dill. eth. t. 233. f. 300.
 In dry gravelly soil, in old fields and pastures : New York to Carolina. v. v. Flowers of a rose-colour, carina purple.
- trilobus.* 4. *P. volubilis*, pubescens ; foliolis inferioribus rhomboideo-ovalibus, superioribus trilobatis, capitulis longe pedunculatis, leguminibus linearibus. *Mich. fl. amer. 2. p. 60.*
P. vexillatus. *Walt. fl. car. 182.*
Glycine angulosa. *Willd. sp. pl. 3. p. 1056.*
 On banks of rivers in gravelly soil : Pennsylvania to Carolina. ☽. June, July. v. v. Flowers resembling the foregoing species.

566. DOLICHOS. *Gen. pl. 1181.*

- luteolus.* 1. *D. volubilis*, pubescens ; foliolis ovatis acumino-rotatis, pedunculisotto longioribus, spicis brevibus subcapitatis, vexillo lato reflexo, alis rhomboideis.—*Willd. sp. pl. 3. p. 1038.*
Icon. Jacq. hort. t. 90.
 In rice fields of Georgia. *Enslen.* ☽. June, July. v. v.
 Flowers bright yellow.

567. PISUM. *Gen. pl. 1184.*

- maritimum.* 1. *P. petiolis supra planiusculis, caule angulato, stipulis saggittatis, pedunculis multifloris.* *Willd. sp. pl. 3. p. 1071.*
Icon. Fl. dan. 338. *Engl. Bot. 1046.*
 In rocky and sandy situations, near the sea-coast : Canada to New York. ♀. July, Aug. v. v. Flowers large, handsome, purple and blue.

568. LATHYRUS. *Gen. pl.* 1186.

1. *L. caule alato, stipulis semisagittatis lanceolatis, foliis sex linearis-lanceolatis acutis, pedunculis sub-3-floris.* — *Willd. sp. pl.* 3. p. 1090.
Icon. Fl. dan. 399. *Engl. bot.* 169.
 In low grounds of Canada. *Michaux.* ♀. July, Aug.
v. s. Flowers pale purple, of middle size.
2. *L. caule nudo tetragono, stipulis semisagittatis lanceolatis acuminatis, foliis quatuor oblongo-lanceolatis acutis mucronatis venoso-reticulatis, pedunculis folio longioribus sub-3-floris.* — *Willd. sp. pl.* 3. p. 1091.
 In salt-marshes: Pennsylvania and New York; particularly plenty about Lake Onondago. ♀. July, Aug.
v. v. Resembles the foregoing species; flowers smaller, purple and rose-coloured.
3. *L. caule nudo tetragono, stipulis semisagittatis ovatis acuminatis, foliis numerosis subalternis ovatis obtusis mucronatis venosis, pedunculis folio brevioribus 5—10-floris.* — *Willd. sp. pl.* 3. p. 1092.
 In low meadows: Pennsylvania. ♀. July, Aug. *v. s.*
 Flowers purple.
4. *L. caule tetragono, stipulis semisagittatis linearibus, foliis 5-jugis: foliis oblongo-ellipticis mucronatis, pedunculis 3—4-floris.*
 On the banks of the Missouri. ♀. *v. s.* Flowers purple, large; pods large.

569. VICIA. *Gen. pl.* 1187.

1. *V. pedunculis solitariis unifloris capillaris, stipulis semisagittatis integerrimis, foliis subsenis linearis-lanceolatis obtusiusculis, leguminibus parvis oblongis glabris.* — *Willd. sp. pl.* 3. p. 1106.
 In low grassy grounds: Pennsylvania to Virginia. ♂. July, Aug. *v. v.* Flowers exceeding small, white, with a tinge of red.
2. *V. floribus binis subsessilibus, stipulis dentatis macula notatis, foliis oblongo-ovatis retusis mucronatis, leguminibus erectis subtereti-linearibus glabris.* — *Willd. sp. pl.* 3. p. 1104? *Walt. fl. car.* 183.
 In Lower Carolina. ♂. July, Aug. *v. s.* Flowers purplish-blue.
3. *V. pedunculis submultifloris folio brevioribus, stipulis* *pusilla.*
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DIADELPHIA DECANDRIA. Vicia.

semisagittatis dentatis, foliolis 8—12. elliptico-lanceolatis obtusis glabris.—*Willd. sp. pl. 3. p. 1096.*

In Pennsylvania. *Muhlenberg.* ♀. +. Flowers the size of *V. sylvatica*, to which it bears a great resemblance.

- Cracca.* 4. *V. spicis multifloris retrorsum imbricatis folio longioribus, stipulis semisagittatis linearis-subulatis integerimis, foliolis numerosis lanceolato-oblongis pubescens-tibus.*—*Willd. sp. pl. 3. p. 1098.*

Icon. *Fl. dan.* 804. *Mart. fl. rast.* 117.

In woods and meadows: Canada to Virginia. ♀. July, Aug. v. v. Flowers pale blue.

- caroliniana.* 5. *V. pedunculis multifloris, floribus distantibus, stipulis ovato-lanceolatis integerrimis, foliolis 8—10. elliptico-lanceolatis glabriusculis, caule glabro.*—*Willd. sp. pl. 3. p. 1094.* *Walt. fl. car.* 182.

V. parviflora. *Mich. fl. amer.* 2. p. 69.

In the mountains from Pennsylvania to Carolina. ♀. July, Aug. v. v. Resembles the foregoing species; but the flowers are white, with a vexillum black on the tip, and a great deal smaller.

570. ASTRAGALUS. *Gen. pl.* 1208.

- carolinianus.* 1. *A. caulescens, erectus; foliolis (41) oblongis subtus pubescentibus, spicis pedunculatis, bracteis lanceolatis pedunculi longitudine, leguminibus ovatis tumidis rostratis.*—*Willd. sp. pl. 3. p. 1273.*

Icon. *Dill. elth.* t. 39. f. 45.

In the mountains of Virginia and Carolina. ♀. June, July. v. v. Flowers pale yellow.

- canadensis.* 2. *A. caulescens, diffusus; foliolis (21) utrinque glabris, leguminibus subcylindricis mucronatis.*—*Willd. sp. pl. 3. p. 1274.*

Icon. *Dodart. mem.* t. 65. *Rob. ic.* 314.

In the mountains: Canada to Carolina. ♀. July, Aug. v. v. Flowers yellow.

- glaber.* 3. *A. caulescens, glaber; foliolis lanceolato-oblongis subciliatis, spicis longe pedunculatis, floribus laxiusculis, leguminibus distantibus incurvis teretibus glabris.*—*Mich. fl. amer.* 3. p. 66.

In the sands of Georgia. *Michaux.* ♀. +. Flowers white.

- alpinus.* 4. *A. caulescens, procumbens; floribus pendulis racemosis,*

leguminibus utrinque acutis pilosis. Willd. sp. pl. 3.
p. 1297.

Icon. Fl. dan. 51. Pall. astrag. t. 32.

In Labrador. Colmaster. 4. July, Aug. v. s. in Herb.
Dickson. Flowers pale purple.

5. A. caulescens, procumbens; foliolis ovatis pubescentibus,
spicis pedunculatis, leguminibus secundis rectis utrin-
que acuminatis pendulis.—Mich. fl. amer. 2. p. 67.

In the north of Canada. Michaux. Labrador. Col-
master. 4. July, Aug. v. s. Flowers dark purple.

secundus.

6. A. caulescens, glaber; foliolis linearibus alternis, spicis
pedunculatis folio longioribus, bracteis minutis, legu-
minibus subteretibus rostratis.

On the banks of the Missouri. M. Lewis. 4. Aug.
v. s. in Herb. Lewis. Flowers small, yellowish-white.

tenellus.

7. A. subacaulis, pilosissimus; foliolis ovalibus supra gla-
bris, pedunculis folia subequalibus, spicis pauciflo-
ris, leguminibus iricanoo-villosissimis assurgentibus ob-
longis.—Mich. fl. amer. 2. p. 67.

In sandy pine-woods of Georgia. 4. July, Aug. v. s.
in Herb. Euston.

vilosus.

571. OXYTROPIS. *Decand. astrag.* p. 24.

1. O. scapulis; foliis obovato-lanceolatis sericeo-argenteis,
scapis folia aequantibus, floribus capitatis, bracteis lan-
ceolatis longitudine calycis sericeis.—Pers. syn. 2.
p. 331.

argentata.

Astragalus argentatus. Willd. sp. pl. 3. p. 1310.

Icon. Pall. astrag. t. 48.

On the banks of Clark's river. M. Lewis. 4. July.
v. s. in Herb. Lewis.

572. APIOS.

Glycine. Gen. pl. 1182.

1. A. volubilis, glabra; radice tuberosa, foliis impari-pin-
natis; foliolis 5—7. ovato-lanceolatis superne angus-
tatis, spicis confertis folio brevioribus.

tuberosa.

Glycine Apios. Willd. sp. pl. 3. p. 1067.

Icon. Bot. mag. 1198. Schkuhr handb. 198. Rob. ic. 317.

In hedges and on mountain meadows: Pennsylvania to
Carolina. 4. July. v. v. Flowers dark brown,
sweet-scented; roots eatable, growing sometimes to
an enormously large size.

- frutescens.* 2. *A. volubilis*; foliis impari-pinnatis novenis ovatis pubescentibus, racemis terminalibus bracteatis, leguminibus coriaceis.
Glycine frutescens. Willd. sp. pl. 3. p. 1067.
Anonymos frutescens. Walt. fl. car. 186.
 In swamps of Virginia, Carolina, and Illinois. ½. June, July. v. v. Flowers purplish-blue. It is a fine ornamental plant.
573. DALEA. Hort. cliff. p. 363. Mich. fl. amer. 3. p. 56.
- Cliffortiana.* 1. *D. spicis oblongis confertis pedunculatis terminalibus sericeis, bracteis calycis longitudine, foliis subsexjugis linear-i-cuneatis retusis apice subdentatis.*—Willd. sp. pl. 3. p. 1336.
Psoralea Dalea. Sp. pl. 1076.
 Icon. Hort. cliffort. t. 22.
 In Georgia and Florida. ♂. v. v. in *Hortis*. Flowers blue.
- alopecuroides.* 2. *D. spicis cylindricis pedunculatis terminalibus sericeis confertis, bracteis calyce brevioribus, foliis 10—12-jugis ellipticis retusis mucronatis.* Willd. sp. pl. 3. p. 1336.
D. Linnæi. Mich. fl. amer. 2. p. 57. t. 38.
 On the banks of the Mississippi. ♂. July, Aug. v. v. Flowers pale blue.
- pedunculata.* 3. *D. glabriuscula; spicis oblongis axillaribus subconfertis brevibus, pedunculis folio triplo longioribus, bracteis minutis longitudine pedicellorum, dentibus calycis subulatis, foliis subsexjugis linearibus acutis mucronatis.* On the banks of the Mississippi. Enslen. ♂. July, Aug. v. s. in *Herb. Enslen*. Flowers rose-coloured.
- parviflora.* 4. *D. cano-pubescentis; spicis filiformibus elongatis laxifloris axillaribus, pedunculis folio duplo longioribus, bracteis minutis, calycis tomentosi dentibus acutis brevibus, foliis sub-5-jugis linearibus obtusis.* On the banks of the Missouri. ♂. July, Aug. v. s. Flowers small, white.



Borago officinalis.

574. PSORALEA. *Gen. pl. 1210.*

1. *P. tota canescens*; foliis breviter petiolatis trifoliatis, spicis laxifloris, floribus pedicellatis, calycibus villo-sissimis. *Mich. fl. amer. 2. p. 57.*
In barren sandy fields of Carolina and Georgia. July.
v. s. Resembles in appearance *Cytisus Cajan.* *canescens.*
2. *P. parce pubescens*; foliis ternatis: foliolis lanceolatis, spicis oblongis, bracteis lato-cordatis longissime acuminatis, leguminibus rotundatis nervoso-rugosissimis.
—*Mich. fl. amer. 2. p. 58.*
Melilotus flore violaceo, odore remissso. *Clayt. n. 103.*
Trifolium psoraloides. Walt. fl. car. 184.
In pine-barrens: Carolina to Florida. $\frac{1}{4}$. June—Aug.
v. s. in Herb. Leconte. Flowers blue. *melilotoides.*
3. *P. pubescens, ramosissima*; foliis ternatis: foliolis el-lipticis utrinque rugoso-punctatis, pedunculis axillari-bus folio longioribus sub-3-floris.
On the banks of the Missouri. *M. Lewis.* $\frac{1}{4}$. Sept.
v. s. in Herb. Lewis. Flowers very small, pale blue. *tenuiflora.*
4. *P. pubescens*; foliis ternatis: foliolis elongato-lanceola-tis, petiolis crassis, spicis axillaribus folio vix longiori-bus densifloris, floribus pedicellatis, bracteis pedicello vix longioribus, dentibus calycis coloratis.
On the banks of the Missouri. $\frac{1}{4}$. July, Aug. *v. s.*
Flowers bright blue, small. *lanceolata.*
5. *P. undique argenteo-tomentosa*; foliis ternatis: foliolis lanceolato-oblongis, spicis terminalibus interruptis, bracteis ovatis acuminatis, floribus suboppositis ses-silibus.
On the banks of the Missouri. $\frac{1}{4}$. *v. s.* Flowers purple: the silvery tomentum gives this plant a par-ticularly handsome appearance. *argephylla.*
6. *P. undique villosa*; foliis digitato-quinatis: foliolis lan-ceolatis inaequibus planis integerrimis, spicis axillari-bus densifloris, lacinias calycis lanceolatis corolla paulo brevioribus, leguminibus ensiformi-rostratis, radice fusiformi.
On the banks of the Missouri. *M. Lewis.* $\frac{1}{4}$. June,
July. *v. s. in Herb. Lewis.* Flowers pale blue. *esculenta.*
Tota planta pilis longis albidis tecta. Radix fusiformis,
crassa, exsiccatione farinosa. Caulis erectus, subra-mosus, teres, sulcatus, pedalis et ultra. Folia alterna,

petiolata, digitato-quinata. *Foliola* subpetiolata, lanceolata, utrinque acuta, integerrima, plana, supra glabra, punctis vix conspicuis confertissime adspersa, subtus pilosa, uncilia. *Petioli* communes teretes, folio longiores. *Stipulae* persistentes, ad basin petiolorum oppositae, oblongo-lanceolatae, acutae. *Spicae* axillares, pedunculatae, densiflorae, bracteatae, foliis longiores. *Bracteae* lato-ovatae, acuminatae, calyce breviores. *Flores* sessiles, cærulei, magnitudine et figura *Viciae sativæ*. *Calyx* hirsutissimus, 5-fidus s. profunde 5-dentatus: dentibus linear-lanceolatis: 2. lateralibus subfalcatis: inferius latior. *Córolla*: *Verillum* obovatum, inferne utrinque glandula instructum, calyce paulo longiore. *Aleæ* semi-ovatae, vexillo breviores. *Carina* oblonga. *Legumen* calyce tectum, monospermum, hirsutum, rostro ensiformi, glabro, calyce longiore instructum. *Semen* reniforme, nigrum.

It approaches very near to *P. pentaphylla* Willd. sp. pl. 3. p. 1352. which is fully described and figured by B. Justieu in *Act. par.* 1744. p. 381. t. 17. But not only the botanical difference, but the medical use made of the Mexican plant, proves their distinctness. The present plant produces the famous *Bread-root* of the American Western Indians, on which they partly subsist in winter. They collect them in large quantities, and if for present use, they roast them in the ashes, when they give a food similar to yams: if intended for winter use, they are carefully dried, and preserved in a dry place in their huts. When wanted for use, they are mashed between two stones, mixed with some water, and baked in cakes over the coals. It is a wholesome and nourishing food, and, according to Mr. Lewis's observation, agreeable to most constitutions; which, he observed, was not the case with the rest of the roots collected by those Indians for food. This root has been frequently found by travellers in the canoes of the Indians, but the plant which produces it has not been known until lately.

Lupinellus. 7. *P. foliis quino-digitatis: foliolis angustissimé linearibus, spica pauciflora, leguminibus ovoideis, uncinato-mucronatis, nervoso-rugosis.* — *Mich. fl. amer.* 2. p. 58.

In barren fields of Carolina. 4. v. s. in *Herb. Lyon.* Flowers very small. The leaves of the whole genus are covered with resinous dots.

575. MELILOTUS. *Tournef. inst. p. 407. t. 229.*

1. *M. caule erecto, foliolis obovatis serratis, spicis axillari-
bus paniculatis, leguminibus dispermis rugosis acutis.*
Trifolium officinale. *Willd. sp. pl. 3. p. 1355.*
Icon. *Fl. dan. 984. Mart. fl. rust. t. 72.*
On the gravelly shores of rivers: Pennsylvania to Virgi-
nia. ♂. June, July. v. v. Flowers white.

576. TRIFOLIUM. *Gen. pl. 1211.*

1. *T. procumbens, pubescens; foliolis obovatis, stipulis
oblique cordatis, capitulis multifloris, floribus pedi-
cellatis demum omnibus reflexis, leguminibus sub-3-
spermis.* — *Willd. sp. pl. 3. p. 1357.*
On dry hills and among rocks: Pennsylvania, Kentucky,
and the Carolina mountains. ♀. June, July. v. v.
Flowers of a fine purplish-red.
2. *T. repens; foliolis ovato-oblongis emarginatis serrula-
tis, capitulis umbellaribus, calycinis dentibus subæ-
qualibus, leguminibus tetraspermis.* — *Willd. sp. pl. 3.
p. 1359.*
Icon. *Fl. dan. 990. Mart. fl. rust. 34.*
In fields, pastures, and cleared lands on the mountains.
♀. May—Sept. v. v. This species, generally known
by the name of *White Clover*, makes its appearance
wherever lands are cleared of timber, in the most re-
mote parts of the country; I have seen it springing
forward on new plantations, from sixty to one hun-
dred miles distant from any place where it naturally
was found. A number of plants of this description
have struck my attention, among which are *Verbas-
cum Thapsus* and *Senecio hieracifolius* in particular,
whose dissemination is really problematical.
3. *T. erectum, posillum; foliolis rotundato-obcordatis gla- carolinianum.*
bris margine ciliatis crenulatis, stipulis bifidis, capitu-
lis umbellaribus pedunculatis reflexis paucifloris, co-
rollis vix exsertis, leguminibus subtrisperrmis. — *Mich.
fl. amer. 2. p. 58.*
T. arvense. *Walt. fl. car. 183.*
T. comosum. *Willd. sp. pl. 3. p. 1360?*
In sandy fields, near Charlestown, South Carolina. ♀.
Jane—Aug. v. s. Flowers small, white. In *Lam.
encycl. 8. p. 2.* it has been suggested, that *T. como-*

sum of Linnaeus and the present plant are the same, and I believe with very good reason, as I suppose the little difference between them may have been occasioned by culture.

- microcephalum.* 4. T. adscendens, pubescens ; foliolis obovatis emarginatis denticulatis, stipulis ovatis acuminatis, capitulis pusilis pedunculatis paucifloris, floribus sessilibus, involucris ovatis aristatis, calycibus aristatis longitudine corollæ.
On the banks of Clark's river. *M. Lewis.* ♀. July. v. s. in *Herb. Lewis.* Flowers exceeding small, pale purple.
- pratense.* 5. T. adscendens, glabriusculum ; foliolis ovalibus subintegerrimis, stipulis aristatis, spicis densis ovatis, calycis dente infimo tubo corollæ monopetalæ inæqualis breviore.—*Willd. sp. pl. 3. p. 1366.*
Icon. *Fl. dan. 989.* *Mart. fl. rust. 3.*
In fields and woods, frequent. ♀. May—Sept. v. v. Common *Red Clover* is apparently in a native state, but very probably has been introduced.
- pensylvanicum.* 6. T. adscendens ; caule ramosissimo flexuoso, foliolis ova-to-ellipticis obtusis integerrimis, stipulis aristatis, spicis ovato-cylindraceis solitariis densis, calycis dente infimo corollæ monopetalæ breviore.—*Willd. enum. p. 793.*
In woods and fields : Pennsylvania to Virginia. ♀. June—Sept. v. v. Resembles *T. medium* very much ; flowers a fine red. It is known by the name of *Buffalo Clover.*
- arvense.* 7. T. erectum, ramosissimum, villosum ; foliolis linearilanceolatis apice serrulatis, stipulis connatis apice subulatis, spicis villosissimis subcylindraceis, dentibus calycinis setaceis corolla longioribus.—*Willd. sp. pl. 3. p. 1373.*
Icon. *Fl. dan. 724.* *Curt. fl. lond. 50.*
In dry and sandy fields : Canada to Virginia. ♂. July, Aug. v. v. Flowers small, white ; the wings have a red spot.
- agrarium.* 8. T. erectum, subpubescens ; foliolis lanceolato-cuneatis obtusis : intermedio sessili, stipulis lanceolatis acutis, spicis ovalibus imbricatis, vexillis deflexis persistentibus, calycinis dentibus subulatis glabris inæqualibus.—*Willd. sp. pl. 3. p. 1382.*
T. aureum. *Pollich. fl. palat. n. 708.*



Sypnaster macrocephalus.

T. strepens. Crantz. fl. austr. 411. n. 8.

Icon. *Fl. dan. 558.*

In meadows: Pennsylvania to Virginia. ♂. June—Aug.
v. v. Flowers small, yellow.

9. *T. procumbens*; caule piloso; foliolis obovatis sub-
marginatis glabris, stipulis brevibus lanceolatis acutis,
spicis ovalibus imbricatis, vexillis deflexis persistenti-
bus sulcatis.—*Willd. sp. pl. 3. p. 1383.* *procumbens.*

Icon. *Fl. dan. 796.*

On dry gravelly soil: Pennsylvania to Virginia. ♂. June
—Aug. v. v. Flowers yellow, resembling those of
the foregoing species.

577. LUPINASTER. *Mœnch. meth. suppl. p. 50.*

Pentaphyllum. Pers. syn. 2. p. 352.

1. *L. foliolis novenis oblanceolatis, petiolis longissimis, sti-
pulis cuneatis inciso-3-dentatis, calycinis dentibus fili-
formibus plumosis.* *macrocephala-
lus.*

At the head-waters of the Missouri. *M. Lewis.* 4.
April, May. v. s. in *Herb. Lewis.* Flowers yellowish-
white, with a pale purple carina, very handsome and
showy: the flower-heads sometimes grow to an ex-
tremely large size.

Caules plures, simplices, angulosi, pilosi. *Folia* petiolata,
suprema opposita, novena. *Foliola* inæqualia, cuneato-
lanceolata, inæqualiter mucronato-denticulata, supra
glabra, subtus pilosa, lineato-venosa, uncialia. *Pe-
tioli* inferiores longi, subteretes. *Stipulae* inferiores pe-
tiolo adnatæ, superiores liberæ, cuneato-oblongæ,
apice inciso-3-dentate, margine serrulatae, consistentia
et pubescens foliorum. *Capitulum* speciosum, di-
diatum. *Flores* lutescentes, carina purpurascens. *Cal.*
campanulatus, subæqualiter 5-dentatus, villosissimus :
dentibus subulatis piloso-plumosis corollam subæ-
quantibus. *Corolla*: *Vexillum* magnum, oblongo-lan-
ceolatum, acutum, cæteras partes fructificationis in-
volvens. *Alæ* carinæ adnatæ, lineares. *Carina* un-
cinata, integra, vexillo vix breviore. *Filamenta* 10.
diadelphia: 1. liberum, reliqua superne libera, inferne
monadelpha, carina adnata. *Germen* oblongum, gla-
brum. *Stylus* filiformis. *Stigma* simplex, hirsutum.
Legumen 3-4-spermum, inflatum, calyce longius.

578. STYLOSANTHES. *Gen. pl. 1203.*

- hispida.* 1. *S. caule uno latere pubescente, foliolis lanceolatis glabris, bracteis lanceolatis ciliatis, capitulis 2-3-floris.*—*Mich. fl. amer. 2. p. 75.*
Trifolium biflorum. Sp. pl. 1088.
Δrachis aprica. Walt. fl. car. 182.
- erecta.* *a. S. caule simplici erecto superne breviter ramoso.*
Icon. Swartz. act. holm. 1789. t. 11. f. 2.
- procumbens.* *β. S. caule procumbente a basi ramoso.*
 In dry gravelly fields and woods; Pennsylvania to Carolina. $\frac{1}{2}$. July, Aug. v. v. Flowers yellow, small.

579. GLYCYRRHIZA. *Gen. pl. 1197.*

- lepidota.* 1. *G. foliolis oblongis acutis sericeo-villosis, leguminibus racemosis oblongis hispidis.*—*Fraser. catal.*
 On the banks of the Missouri. $\frac{1}{2}$. July, Aug. v. s.
v. v. s. fl.

580. LESPEDEZA. *Mich. fl. amer. 2. p. 70.*

- sessiliflora.* 1. *L. erecta; foliolis oblongis, fasciculis florum sessilibus numerosis, lomentis calyce minuto subnudatis acutis.*
Mich. fl. amer. 2. p. 70.
Hedysarum junceum. Walt. fl. car. 184.
Hedysarum sessiliflorum. Lam. encycl. 6. p. 414.
Hedysarum reticulatum. Willd. sp. pl. 3. p. 1194.
Medicago virginica. Syst. veg. 3. p. 573.
 In old fields and on the borders of woods: New York to Carolina. $\frac{1}{2}$. July, Aug. v. v. Flowers purple.
- capitata.* 2. *L. erecta, simplex; foliis subsessilibus: foliolis ellipticis, spicis capitatis brevi-pedunculatis axillaribus et conglobaro-terminalibus, calycibus villosis longitudine corollae lomentis calyce multo minoribus.* *Mich. fl. amer. 3. p. 71.*
Hedysarum conglomeratum. Lam. encycl. 6. p. 416.
- angustifolia.* 3. *L. foliolis linearibus, pedunculis longioribus.*
Trifolium erectum hanc ramosum, foliis longis, &c.
Clayt. n. 934.
 In sandy soil, in old fields and borders of woods: New York to Carolina. $\frac{1}{2}$. June, July. v. v. From one to three feet high; flowers pale purple.
- polystachya.* 3. *L. erecta, ramosa, villosissima; foliis subsessilibus: foliolis rotundato-ovalibus, spicis axillaribus longe-pe-*

- dunculatis, corollis calyce subequalibus, lomento calycem subsequante.—*Mich. fl. amer.* 3. p. 71.
Hedysarum hirtum. *Willd. sp. pl.* 3. p. 1193.
 Icon. *Mich. fl. amer.* 2. t. 40.
 In copes and old fields: Pennsylvania to Carolina. 4.
 June—Aug. v. v. From two to three feet high;
 flowers small, white, with a red spot on the vexillum.
4. *L. diffusa*, ramosissima; foliis longe-petiolatis: foliolis ellipticis obensis subtus adpresso-pilosis, racemis brevibus umbellatibus, floribus geminatis, lomentis rhomboidis reticulatis glabris. *Hedysarum violaceum*. *Willd. sp. pl.* 3. p. 1195.
 On gravelly dry soil: Virginia to Carolina. 4. July.
 v. v. Flowers small, purple or violet.
5. *L. diffusa*, ramosa; foliolis oblongis obtusis subtus adpresso-pilosis, racemis petiolo longioribus, floribus geminis, lomentis ovatis reticulatis glabris. *Hedysarum divergens*. *Willd. sp. pl.* 3. p. 1196.
 In North America. *Muhlenberg*. 4. +. Approaches very near to the foregoing species, and is probably only a variety.
6. *L. procumbens*, gracilis, pubescens; foliolis ovalibus, pedunculis longissimis, setaceis spicifloris, leguminibus calyce minuto nudatis.—*Mich. fl. amer.* 3. p. 70.
Hedysarum Lespedeza. *Lam. encycl.* 6. p. 415.
 In sandy and gravelly soil: New York to Carolina. 4.
 June, July. v. v. Flowers violet-purple, with yellow spots.
7. *L. prostrata*; foliis petiolatis: foliolis ellipticis obtusis subtus pilis rarioris adpressis tecta, racemis axillaris folio longioribus, lomentis ovatis pubescitibus. *Hedysarum prostratum*. *Willd. sp. pl.* 3. p. 1200.
 In Pennsylvania. *Muhlenberg*. 4. +. Resembles *Hedysarum repens* greatly.
- 581. HEDYSARUM. *Gen. pl.* 1204.**
1. *H. erectum*, glabriuscum; foliis ternatis oblongo-lanceolatis, stipulis filiformibus, floribus racemosis, articulis lomenti obtuse triangulis hispidis.—*Willd. sp. pl.* 3. p. 1187.
 Icon. *Moris hist.* 2. s. 2. t. 11. f. 9.
 In sandy barren fields and woods: Canada to Carolina. 4. July, Aug. v. v. Flowers middle-sized, of a handsome purplish-red.

*prostrata.**canadense.*

- canescens.* 2. *H. erectum*, pilosum; caule angulato-ciliato hispido, foliis ternatis subrotundis subtus adpresso-pilosis, stipulis ovatis acuminatis, racemis paniculatis, bracteis cordatis, lomenti articulis triangularibus hispidis.—*Willd. sp. pl. 3. p. 1188.*
In dry barren woods: Virginia and Carolina. ¼. June—Aug. v. v. Flowers middle-sized, pale purple.
- marylandicum.* 3. *H. erectum*, ramosum, pilosum; foliis ternatis oblongis subtus villosis, stipulis subulatis, racemis paniculatis, lomentis triarticulatis, articulis rhombatis reticulatis pilosiusculis.—*Willd. sp. pl. 3. p. 1189.*
Icon. *Dill. elth. t. 174. f. 171.*
In dry swamps and woods: New York to Carolina. ¼. June—Aug. v. v. Flowers large, a fine purple, with a green spot at the bottom of the vexillum, which mark occurs in most species.
- obtusum.* 4. *H. erectum*, pubescens; foliis ternatis ovatis obtusis basi subcordatis, stipulis lanceolato-subulatis, panicula terminali, articulis lomenti semiorbiculatis reticulatis hispidis.—*Willd. sp. pl. 3. p. 1190.*
In dry swamps, old fields and woods: Pennsylvania to Virginia. ¼. July, Aug. v. v. Flowers violet.
- viridiflorum.* 5. *H. erectum*, ramosum, pubescens; foliis ternatis ovato-oblongis subtus scabris, stipulis lanceolato-cuspidatis, racemis paniculatis bracteatis, lomentis asperis, articulis ovalibus.—*Willd. sp. pl. 3. p. 1192.*
Icon. *Plak. alm. t. 308. f. 5.*
In woods and old fields: New Jersey to Carolina. ¼. July—Sept. v. v. About three feet high; flowers reddish-purple, which turns green after flowering.
- glabellum.* 6. *H. erectum*, glabrum; foliis ternatis ovatis obtusis subtus subglauca, stipulis parvis subulatis, panicula terminali, lomenti articulis triangulo-rhomboideis.—*Mich. fl. amer. 3. p. 73.*
In fields and woods: Virginia and Carolina. ¼. July, Aug. v. v. Flowers purple, small.
- bracteosum.* 7. *H. erectum*, glabrum; foliis ternatis oblongo-ovalibus acuminatis, stipulis subulatis, racemo terminali sparsifloro, bracteis ovatis acuminatis striatis glabris, lomenti articulis subovalibus.—*Mich. fl. amer. 2. p. 73.*
In the western parts of Pennsylvania and Virginia. ¼. July—Sept. v. v. Flowers large, purplish-red.
- ciliare.* 8. *H. erectum*, glabriuscum; foliis ternatis ovatis subtus

- pubescentibus margine ciliatis, stipulis filiformibus,
panicula terminali, lomenti articulis (2-3) semioblique
culatis hispidis.—*Willd. sp. pl. 3. p. 1196.*
In North America. *Muhlenberg. 4. +.* Flowers small,
violet.
9. *H. erectum, glabrum ; foliis ternatis oblongo-lanceolatis paniculatum.*
vel ellipticis glabris, stipulis subulatis panicula terminali,
lomenti articulis (4) rhomboides pubescentibus.—
Willd. sp. pl. 3. p. 1196.
Icon. *Pluk. mant. t. 432. f. 6.*
In dry woods and fields : New York to Carolina. *4.*
June—Aug. *v. v.* Flowers purple.
10. *H. stricte-erectum, glabrum, simplex ; foliis petiolatis ternatis linear-ellipticis glabris reticulato-venosis sub-
tus glaucis, stipulis subulatis, panicula terminali pedunculata pauciflora.* *strictum.*
In pine-woods of New Jersey. *4.* July, Aug. *v. v.*
Flowers small, pale purple ; seeds not known.
11. *H. erectum, glabrum ; foliis ternatis petiolatis ovato-
oblengis longe-acuminatis glabris margine scabris, sti-
pulis ovato-lanceolatis, panicula terminali, articulis lomenti triangularibus reticulatis glabris margine pubes-
centibus.—*Willd. sp. pl. 3. p. 1198.**
- In shady woods : Pennsylvania and Virginia. *4.* July,
Aug. *v. v.* Flowers violet.
12. *H. erectum, simplex, pubescens, summitate frondosum ; foliis ternatis ovatis longe acuminatis utrinque rarer adpresso-pilosis longissime petiolatis : impari rotunda-
to-subrhomboideo, panicula terminali longissime pe-
dunculata.—*Mich. fl. amer. 2. p. 72.**
- In shady woods : New England to Carolina. *4.* July,
Aug. *v. v.* Not above a foot high ; flowers purple.
It approaches near the foregoing species, and is the connecting link between that and the following.
13. *H. erectum, simplex, glabriusculum ; foliis ternatis lato-
ovalibus acuminatis, scapo paniculato glabro radicali caule foliifero altiore, lomenti articulis subrotundo-tri-
angularibus glabriusculis.—*Willd. sp. pl. 3. p. 1198.**
- In woods and old fields : New England to Carolina. *4.*
June—Sept. *v. v.* About a foot high ; flowers purple.
14. *H. erectum, simplex ; foliis longe petiolatis ternatis sub-
rotundo-ovatis acuminatis, panicula scapiformi e caulis* *nudiflorum.* *glutinosum.*

- basí, pedunculis piloso-viscosis, lomenti articulis oblongo-triangularibus glabriusculis.—*Willd. sp. pl. 3. p. 1198.*
 In dry shady places, in the western parts of Pennsylvania and Virginia. ♀. July, Aug. v. v. Flowers purple.
- lineatum.* 15. *H. caule repente viridi lineato, foliis subsessilibus ternatis suborbiculatis, racemis elongatis laxe parvifloris, lomenti articulis lenticularibus.*—*Mich. fl. amer. 2. p. 72.*
 In Carolina. *Michaux.* ♀. +.
- rotundifoli- um.* 16. *H. prostratum, hirsutum; foliis ternatis orbiculatis utrinque pilosis, stipulis rotundato-cordatis reflexis, racemis axillaris et paniculato-terminalibus paucifloris, bracteis cordatis, lomenti articulis subrhomboideis reticulatis scabris.*—*Mich. fl. amer. 2. p. 72.*
 In rocky, dry situations: Pennsylvania to Carolina. ♀. July, Aug. v. v. A handsome species: flowers purple.
- alpinum.* 17. *H. erectum; foliis pinnatis: foliolis ovali-oblongis pilosis, stipulis subvaginatis, leguminibus patulis glabris ex utraque sutura articulatis: articulis brevi-ovalibus.* *Mich. fl. amer. 2. p. 74.*
 In the north of Canada, and near the cataracts of the Allegany mountains. *Michaux.* ♀. +. Flowers purple.
582. ZORNIA. *Mich. fl. amer. 2. p. 76. Gmel. syst. veg. 1096.*
- tetraphylla.* 1. *Z. foliis digitato-quadrifoliatis: foliolis lanceolatis glabris, spicis axillaris pedunculatis, floribus alternis bibracteatis, bracteis suborbiculatis.*—*Mich. fl. amer. 2. p. 76.*
Z. bracteata. Gmel.
Hedysarum tetraphyllum. Lam. encycl. 6. p. 405.
Anonymous bracteata. Walt. fl. car. 181.
Icon. Mich. fl. amer. 2. t. 41.
 In sandy fields of Lower Carolina. ♀. July, Aug. v. s. in *Herb. Easlen.* About a foot high, very branching; flowers yellow.

583. AESCHYNOMENE. Gen. pl. 1202.

1. A. caule prostrato gracili viscido-pubescente, foliolis 7—9. obovalibus, pedunculis subbifloris, lomento pubescente profunda incisura articulata.—*Mich. fl. amer. 3. p. 74.*
On the overflowed sands of Florida, and Cumberland island, Georgia. *Michaux.* ♂. +.
2. A. caule erecto petiolisque tuberculato-hispido, foliis multijugis : foliolis linearibus obtusis, stipulis membranaceis semisagittatis, racemis simplicibus paucifloris, lomentis hispidis.—*Willd. sp. pl. 3. p. 1163.*
Hedysarum virginicum. *Willd. sp. pl. 3. p. 1212.*
On the banks and islands of the principal rivers, as far as the tide flows : Pennsylvania to Carolina. ♂. July, Aug. v. v.; v. s. in *Herb. Gronov.* Flowers yellow, finely veined with red.

584. SESBANIA. Poiret in lam. encycl. 7. p. 126.

1. S. glabra ; foliis sub-20-jugis : foliolis oblongis obtusis glabris margine ciliatis, racemis pedunculatis paucifloris folio brevioribus, lomentis lato-lanceolatis compresis longe stipitatis subdispermis.
S. platycarpa. Pers. syn. 2. p. 316.
Robinia vesicaria. Jacq. ic. rar. 1. t. 48.
Phaca floridana. Pers. syn. 2. p. 331.
Aeschynomene platycarpa. Mich. fl. amer. 2. p. 75.
In overflowed places : Carolina and Florida. ♂. v. s.
Flowers yellow.

585. GLYCINE. Gen. pl. 1182.

1. G. caule volubili, foliis ternatis ovatis acutis glabriis, racemis filiformibus sub-3-floris, floribus apetalis, leguminibus oblongis dispermis.—*Willd. sp. pl. 3. p. 1053.*
G. monoica. Schkuhr bot. annal. 12. p. 20. t. 2.
In low grounds, among bushes : Virginia and Carolina.
♂. July, Aug. v. v. It might with propriety form a separate genus, if the following species did not show the strong claim it has to be still considered a *Glycine.*
2. G. caule gracili retrorsum piloso, foliis ternatis ovatis glabris membranaceis, racemis caulinis pendulis laxis corollatis plerumque sterilibus, bracteis suborbiculariis

*viscidula.**hispida.**disperma.**sarmentosa.**monoica.*

DIADELPHIA DECANDRIA. Glycine.

concavis, pedunculis radicalibus floribus apetalis fructiferis.—*Willd. sp. pl. 3. p. 1055.*

G. bracteata. Sp. pl. p. 754.

On the banks of rivulets in stony and shady places : New York to Carolina. ♂. July—Sept. v. v. The flowers on the stem resemble those of *Vicia Cracca*, they are pale blue, and seldom produce ripe fruit ; the long radical tendrils have exceeding small flowers which produce a pod, generally with only one seed, which drops into the ground before maturity.

comosa.

3. *G. caule volubili, foliis ternatis ovato-lanceolatis acutis hirsutis, racemis lateralibus pendulis confertifloris, floribus omnibus fructiferis.—Willd. sp. pl. 3. p. 1058.*

In hedges near rivers and ditches : New York to Virginia. ♀. July—Sept. v. v. Flowers blue, of the size and shape of the preceding species, to which it has a strong resemblance, but differs in being a perennial and robust plant, besides the other characters given.

tomentosá.

4. *G. caule volubili anguloso, foliis ternatis ovato-oblongis acutis pubescentibus, subtus rugoso-venosis tomentosis, racemis axillaribus petiolo brevioribus, leguminibus oblongis dispermis.—Willd. sp. pl. 3. p. 1061.*

Icon. *Dill. ethn. t. 26. f. 29.*

erecta.

β. *G. tomentosior ; caule erecto, foliis oblongo-ovalibus.*

Trifolium erectum. Walt. fl. car....

In sandy ground, among hedges : β. on road sides and old fields : Virginia to Georgia. ♀. June—Aug. v. v. Flowers yellow.

reniformis.

5. *G. erecta, humilis, pubescens ; foliis omnibus simplicibus reniformi-rotundatis rugosis reticulatis, junioribus tomentosis, racemis subsessilibus paucifloris, leguminibus compresso-ovatis dispermis.*

G. tomentosa γ. monophylla. Mich. fl. amer. 2. p. 63.

Trifolium simplicifolium. Walt. fl. car. 184.

In barren pine-woods : Carolina and Georgia. ♀. July, Aug. v. s. Flowers yellow.

586. GALACTIA. Brown. *Mich. fl. amer. 2. p. 61.*

mollis.

1. *G. volubilis, molliter pubescens, subcanescens ; foliis ternatis ovato-oblongis obtusis glabriusculis subtus glaucis, racemis axillaribus simplicibus elongatis paucifloris, leguminibus villosis.—Mich. fl. amer. 2. p. 61.*

Hedysarum volubile. Willd. sp. pl. 3. p. 1204.

In pine-barrens: New Jersey to Carolina. ♀. July, Aug. v. v. Flowers purple, with yellow and white, the size of *Hedysarum paniculatum*.

2. G. prostrata, subvulbilis, glabriuscula; foliis ternatis elliptico-oblongis obtusis utrinque emarginatis utrinque glabris, racemis axillaribus simplicibus abbreviatis paucifloris, calycibus glabris, leguminibus villosis.—*Mich. fl. amer. 2. p. 62.*

Dolichos regularis. Willd. sp. pl. 3. p. 1049.

Ervum volabile. Walt. fl. car. 167.

In pine-woods and sandy fields: New Jersey to Carolina. ♀. June—Sept. v. v. The roots are fusiform, and extend to a great depth: the flowers, though not large, are extremely pretty, purple, red and white mixed.

glabella.

587. CLITORIA. Gen. pl. 1183.

1. C. foliis ternatis ovatis calyce bracteis longiore 5-partito: laciiniis subulatis incurvis divergentibus, leguminibus subensiformibus.—Willd. sp. pl. 3. p. 1069.

Icon. Dill. elth. t. 76. f. 87.

In hedges: Virginia and Carolina. ♀. July, Aug. v. v. Flowers large, beautiful blue, very handsome and ornamental.

virginiana.

2. C. foliis ternatis, calyce bracteis linear-lanceolatis multoties majore, oblongo-tubuloso 5-fido, legumine faciebus convexis toruloso, seminibus glutinosis. *Mich. fl. amer. 2. p. 62.* Willd. sp. pl. 3. p. 1070.

In hedges on the banks of rivulets: Virginia and Carolina. ♀. July—Sept. v. v. Flowers smaller and of a paler blue than the preceding.

marianna.

588. ROBINIA. Gen. pl. 1195.

1. R. foliis impari-pinnatis, stipulis spinescentibus, racemis pendulis, calycis dentibus muticis, leguminibus laevibus.—Willd. sp. pl. 3. p. 1131.

Icon. Schmidt arb. 32. Duham. arb. ed. nov. 16. Wangh. arb. t. 7. f. 19. Pluk. alm. t. 4.

On dry fertile ridges on the mountains, from Canada to Carolina. ♂. May, June. v. v. Flowers white, sweet-scented. This highly ornamental tree is at the same time a most useful one: its wood is almost in-

corruptible, and particularly calculated for posts of gates and fences. It is universally known by the name of *False Acacia*, in America *Locust-tree*.

viscosa.

2. *R. foliis impari-pinnatis, racemis axillaribus erectis confertifloris, calycibus acuminateis, ramis petiolis pedunculis leguminibusque glanduloso-viscosis.*—*Willd. sp. pl. 3. p. 1131.*

R. glutinosa. Bot. mag. 560.

Icon. Vent. desc. pl. nov. t. 4. Duham. arb. ed. nov. 17.
On the banks of rivers in South Carolina, particularly on the Savannah. $\frac{1}{2}$. June, July. v. v. Flowers pale red, with white. This tree is highly ornamental; but its creeping roots are a great nuisance in small plantations.

hispida.

3. *R. foliis impari-pinnatis : foliolis rotundato-ovalibus mucronatis, racemis axillaribus suberectis, calycibus acuminateis, caule subinermi, ramis pedunculis calycibus leguminibusque hispidis.*—*Willd. sp. pl. 3. p. 1132.*

R. montana. Bartr. catal.

R. rosea. Duham. arb. ed. nov. 18.

Icon. Bot. mag. 311. Schmidt arb. 31. Catesb. car. 3. t. 20. Mill. ic. 244.

rosea.

- β . *R. foliolis plerunque alternis, ramulis glabriusculis.*
On the high mountains of Virginia and Carolina. $\frac{1}{2}$. May—Sept. v. v. Flowers large, a beautiful rose-colour, inodorous. This elegant little shrub is one of the highest ornaments of our gardens and plantations. The var. β . is less hispid, and grows to a considerable large upright shrub, whereas the original *hispida* is a low straggling plant.

589. INDIGOFERA. Gen. pl. 1205.

caroliniana.

1. *I. herbacea, erecta ; foliis pinnatis : foliolis obovalibus, spicis folio longioribus pedunculatis, floribus distantibus, leguminibus pendulis subdispermis reticulatovenosis.*—*Walt. fl. car. 187. Mich. fl. amer. 2. p. 68.*

In sandy fields: Carolina to Florida. $\frac{1}{2}$. v. s. Flowers blue.

590. TEPHROSIA. *Pers. syn. 2. p. 329.*

1. *T. erecta*, candicanti-villosa ; foliolis (17—21) oval-oblongis acuminatis, racemo terminali brevi subsessili, leguminibus retrofalcatis villosis, calycibus lanatis.—
Pers. syn. 2. p. 329.
Galega virginiana. Pluk. alm. t. 23. f. 2.
In sandy and dry woods : Canada to Florida. Ʌ. June, July. v. v. About a foot high ; flowers very handsome, rose-coloured and yellowish white.
2. *T. prostrata*, pubescens ; foliis pinnatis quinis subsessiliibus : foliolis cuneato-ovobatis obtusissimis supra glabris, subtus sericeis, pedunculis oppositifoliis elongatis sub-3-floris, leguminibus rectiusculis.
Galega villosa. Mich. fl. amer. 2. p. 67?
In Georgia. *Enslen. Ʌ. July, Aug. v. s. in Herb. Enslen.* Flowers purple. The singular circumstance of the nearly sessile leaves, gives it the appearance of a trifoliate plant, the lower pair representing stipule. Though Michaux's description answers very well in any other respect, I was led to doubt by his not mentioning the number of leaves, which is one of the most striking characters.
3. *T. gracilis*, humifusa, pubescens ; foliolis (18—15) oblongo-ellipticis truncato-obtusis mucronatis, pedunculis oppositifoliis elongatis 3—5-floris, leguminibus oblongis falcatis hispidis.
Galega hispida. Mich. fl. amer. 2. p. 68.
Galega spicata. Walt. fl. car. 188.
In pine-woods and on slate-hills : Virginia to Georgia. Ʌ. July—Sept. v. v. Flowers pale red.

591. LOTUS. *Gen. pl. 1212.*

1. *L. foliis ternatis subsessilibus oblongis acutis sericeo-vilosis*, pedunculis axillaribus unifloris folio longioribus, flore unibracteato, calycinis laciniis linearibus, legume glabro longissimo.
On the banks of the Missouri. 〇. v. s. Flowers yellow.

592. MEDICAGO. *Gen. pl.* 1214.*lupulina.*

1. *M. spicis ovalibus, leguminibus reniformibus monospermis stipulis integerrimis, foliolis obovatis, caulinibus procumbentibus.*—*Willd. sp. pl.* 3. p. 1406.

Icon. *Schkuhr handb.* t. 212.

In gravelly soil, on road sides: Canada to Carolina. ○.
June—Sept. v. v. Flowers small, yellow.

intertexta.

2. *M. pedunculis subbifloris, leguminibus cochleatis ovalibus, aculeis pubescentibus setaceis distichis adpressis, stipulis ciliato-dentatis, foliolis obovatis dentatis.*—*Willd. sp. pl.* 3. p. 1411.

M. polymorpha intertexta. *Sp. pl.* 1098.

Icon. *Schkuhr handb.* 212. b.

In sandy fields: Carolina. July, Aug. v. v. Flowers yellow.

Note.—In addition to the observations under *Psoralea esculenta*, p. 475. it may be interesting to state, that A. B. Lambert, Esq. raised in the summer of 1812 a number of plants, the seeds of which were taken out of a specimen collected in the year 1805 by M. Lewis, Esq. Also, that this highly interesting plant is now growing at Messrs. Frasers, Sloane Square.

XVII. SYNGENESIA.

I. AEQUALIS.

* *Ligulatae.*

593. CICHORIUM. *Recept.* subpaleaceum. *Pappus* polyphyllus, paleaceus. *Cal.* calyculatus.
594. APARGIA. *Recept.* nudum. *Pappus* plumosus, sessilis. *Cal.* imbricatus.
595. SCORZONERA. *Recept.* nudum. *Pappus* plumosus, substipitatus. *Cal.* imbricatus, squamis margine scariosis.
596. LEONTODON. *Recept.* nudum. *Pappus* plumosus, stipitatus. *Cal.* imbricatus, squamis laxiusculis.
597. CHONDRILLA. *Recept.* nudum. *Pappus* pilosus, stipitatus. *Cal.* calyculatus. *Flosculi* multiplici serie. *Sem.* rugosa.
598. PRENANTHES. *Recept.* nudum. *Pappus* simplex, subsessilis. *Cal.* calyculatus. *Flosculi* simplici serie.
599. LACTUCA. *Recept.* nudum. *Pappus* simplex, stipitatus. *Cal.* imbricatus, cylindricus, margine membranaceo. *Sem.* laevia.
600. SONCHUS. *Recept.* nudum. *Pappus* pilosus, sessilis. *Cal.* imbricatus, ventricosus.
601. HIERACIUM. *Recept.* nudiusculum. *Pappus* simplex, sessilla. *Cal.* imbricatus, ovatus.
602. KRIGIA. *Recept.* nudum. *Pappus* membranaceus, 5-polyphyllus, setis 5. iterstinctis. *Cal.* polyphyllus, simplex.
603. HYOSERIS. *Recept.* nudum. *Pappus* duplex : exterior capillaceus ; interior paleaceo-aristatus. *Cal.* calyculatus.
604. TROXIMON. *Recept.* nudum, puncticulatum. *Pappus* pilosus, sessilis. *Cal.* oblongus, conicus, simplex, aut squamis inaequalibus imbricatus.

** *Flosculosæ.*

605. STOKESIA. *Recept.* nudum. *Pappus* 4-setosus. *Cal.* foliaceus, subimbricatus, *Cor.* radiata : corollulis radii infundibuliformibus, irregularibus.
606. ARCTIUM. *Recept.* paleaceum. *Pappus* setoso-paleaceus. *Cal.* globosus : squamis apice hamis inflexis.
607. CNICUS. *Recept.* villosum. *Pappus* plumosus. *Cal.* imbricatus, ventricosus.
608. CARDUUS. *Recept.* villosum. *Pappus* capillaris. *Cal.* imbricatus, ventricosus.
609. LIATRIS. *Recept.* nudum. *Pappus* plumosus, coloratus. *Cal.* oblongus, imbricatus.
610. VERNONIA. *Recept.* nudum. *Pappus* duplex : exterior paleaceus, brevis ; interior capillaris. *Cal.* ovatus, imbricatus.
611. KUHNIA. *Recept.* nudum. *Pappus* plumosus. *Cal.* imbricatus, cylindraceus.
612. EUPATORIUM. *Recept.* nudum. *Pappus* pilosus. *Cal.* imbricatus, cylindricus. *Stylus* semibifidus, longus.
613. MIKANIA. *Recept.* nudum. *Pappus* pilosus s. plumosus. *Cal.* 4—6-phylloides, 4—6-florus. *Stylus* semibifidus, longus.
614. CHRYSOCOMA. *Recept.* nudum. *Pappus* pilosus. *Cal.* imbricatus. *Stylus* vix flosculis longior.
615. CACALIA. *Recept.* nudum. *Pappus* pilosus. *Cal.* cylindricus, basi calyculatus.
616. SPARGANOPHORUS. *Recept.* nudum. *Sem.* coronatum copula subcartilaginea, integerrima, nitida. *Cal.* subglobosus, imbricatus : squamis apice recurvatis.
617. HYMENOPAPPUS. *Recept.* nudum. *Pappus* polyphyllus, paleaceus. *Cal.* polyphyllus, patens.
618. MELANANTHERA. *Recept.* paleaceum : paleis flosculos inferne amplexantibus. *Pappus* aristis ipsaequalibus, 4—5-inermibus. *Cal.* imbricatus : squamis ovatis, appressis, subæqualibus.
619. MARSHALLIA. *Recept.* paleaceum. *Pappus* paleis 5. membranaceis, acuminatis. *Cal.* imbricatus : squamis sublanceolatis incumbentibus.
620. SANTOLINA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* imbricatus, hemisphæricus : squamis carinatis apice scariosis.

II. SUPERFLUA.

* *Discoidei.*

621. ARTEMISIA. *Recept.* subnudum. *Pappus* nullus. *Cor.* radii nullæ. *Cal.* imbricatus : squamis rotundatis, conniventibus.
622. TANACETUM. *Recept.* nudum. *Pappus* submarginatus. *Cor.* radii obsoletæ, 3-fidæ. *Cal.* imbricatus, hemisphæricus : squamis acuminatis.
623. BACCHARIS. *Recept.* nudum. *Pappus* pilosus. *Floscul.* feminei hermaphroditis immixti. *Cal.* imbricatus, cylindricus : squamis ovatis subcoriaceis.
624. CONYZA. *Recept.* nudum. *Pappus* simplex, capillaris. *Cor.* radii 3-fidæ. *Cal.* imbricatus : squamis linearibus aut ovatis.
625. GNAPHALIUM. *Recept.* nudum. *Pappus* plumosus. *Cal.* imbricatus : squamis marginalibus rotundatis, scariosis, coloratis.

** *Radiati.*

626. BELLIS. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus : squamis æqualibus. *Sem.* obovata.
627. CHRYSANTHEMUM. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus, imbricatus ; squamis intimis scariosis.
628. PYRETHRUM. *Recept.* nudum. *Pappus* marginatus. *Cal.* squamis acutiusculis margine scariosis.
629. ARNICA. *Recept.* nudum. *Pappus* simplex, pilosus. *Cal.* hemisphæricus ; foliolis subæqualibus disco longioribus. *Cor.* radii (luteæ) saepius filamentis 5. absque antheris.
630. CINERARIA. *Recept.* nudum. *Pappus* simplex. *Cal.* simplex, polyphyllus, æqualis.
631. SENEPIO. *Recept.* nudum. *Pappus* simplex. *Cal.* cylindricus, calyculatus : squamis apice sphacelatis.
632. TUSSILAGO. *Recept.* nudum. *Pappus* simplex. *Cor.* semineæ ligulatæ s. edentulæ. *Cal.* simplex : squamæ æquales, discum æquantes, submembranaceæ.
633. INULA. *Recept.* nudum. *Pappus* simplex. *Cal.* imbricatus. *Cor.* radii numerosæ (luteæ).
634. ERIGERON. *Recept.* nudum. *Pappus* pilosus. *Cor.* radii capillares (coloratæ).

635. SOLIDAGO. *Recept.* nudum, punctis exaratum. *Pappus simplex.* *Cor.* radii circiter 5. (flavæ). *Cal.* squamæ imbricatæ, clausæ.
636. ASTER. *Recept.* nudum, scrobiculatum. *Pappus pilosus.* *Cor.* radii plures, sæpius 10. (aut pauciores, colorati). *Cal.* imbricati squamæ inferiores patulae.
637. DONIA. *Recept.* nudum, favosum. *Pappus* 3-4-aristatus, decidiuus. *Cor.* radii plures (30-35 flavi). *Cal.* hemisphæricus, imbricatus : squamis interioribus cartilagineis, coloratis.
638. BŒBERA. *Recept.* nudum. *Pappus pilosus.* *Cal.* duplex : exterior polyphyllus, interior octophyllus.
639. ACTINELLA. *Recept.* nudum. *Pappus* polyphyllus (4-6), paleaceo-aristatus. *Cal.* polyphyllus, æqualis.
640. HELENIUM. *Recept.* nudum : radii paleaceum. *Pappus* 5-aristatus. *Cor.* radiis 3-fidis. *Cal.* simplex, multipartitus.
641. BOLTONIA. *Recept.* favosum. *Pappus* dentato-aristatus : aristis duabus oppositis interdum elongatis. *Cor.* radii plurimæ. *Cal.* imbricatus.
642. SIEGE-BECKIA. *Recept.* paleaceum. *Pappus nullus.* *Radius* dimidiatus. *Cal.* exterior 5-phyllus, proprius patens. *Sem.* sub-4-gona.
643. PHÆTHUSA. *Recept.* paleaceum. *Pappus nullus.* *Flosculi* radii 1-3. *Cal.* imbricatus. *Sem.* hispida.
644. ECLIPTA. *Recept.* paleaceum. *Pappus nullus.* *Cor.* disci 4-fidæ. *Sem.* subcompresso-marginata, obsolete 2-3-dentata.
645. ANTHEMIS. *Recept.* paleaceum : paleis planis, apice acuminatis, rigidis. *Pappus nullus* s. margo membranaceus. *Flores* radii plures quam 5. *Cal.* hemisphæricus, subæqualis.
646. ACHILLEA. *Recept.* paleaceum. *Pappus nullus.* *Flosc.* radii circiter 5., dilatati. *Cal.* ovatus, imbricatus. (*Flores* corymbosi.)
647. TETRAGONOTHECA. *Recept.* paleaceum. *Pappus nullus.* *Cal.* monophyllus, 4-gonus, 4-partitus, latissimus.
648. HELIOPSIS. *Recept.* paleaceum, conicum. *Pappus nullus.* *Cor.* radii lineares, magnæ. *Cal.* imbricatus : squamis ovatis, lineatis. *Sem.* 4-gona.
649. BUPHTHALMUM. *Recept.* paleaceum. *Pappus* margo obsoletus s. 4-dentatus. *Cal.* foliaceus. *Sem.* latera, præsertim radii, marginata.

650. AMELLUS. *Recept.* paleaceum. *Pappus* pilosus.
Cor. radii indivisæ. *Cal.* imbricatus.
651. VERBESINA. *Recept.* paleaceum. *Pappus* aristatus.
Flosc. radii circiter 5. *Cal.* duplii ordine.
652. ZINNIA. *Recept.* paleaceum. *Pappus* aristis 2.
erectis. *Radius* 5-florus, persistens. *Cal.* imbricatus, ovato-cylindricus.

III. FRUSTRANEA.

653. BIDENS. *Recept.* paleaceum: paleis extimis quasi calycem communem constituentibus. *Pappus* aristis 2. s. 4. retrorsum. *Flores* flosculosi aut etiam radiati: radiis neutris aut imperfecte masculis. *Cal.* subæqualis, calyculatus.
654. COREOPSIS. *Recept.* et *Cal.* comm. Bidentis. *Flores* radiati: radiis neutris, prolixis (luteis). *Sem.* compressa aut emarginata, aut bidentata, aut etiam biseptosa: setis inermibus nec retrorsum aculeatis.
655. HELIANTHUS. *Recept.* paleaceum, planum. *Pappus* diphyllus, caducus. *Cal.* imbricatus, subsquarens, foliaceus.
656. GALARDIA. *Recept.* paleaceum, hemisphæricum. *Pappus* paleaceus, polyphyllus. *Cor.* radii 3-partitæ. *Cal.* polyphyllus, planus.
657. RUDBECKIA. *Recept.* paleaceum, conicum. *Pappus* margine 4-dentato. *Cal.* duplii ordine squarum.
658. CENTAUREA. *Recept.* setosum. *Pappus* pilosus. *Cor.* radii infundibuliformes, irregulares. *Cal.* varius.

IV. NECESSARIA.

659. CHAPTALIA. *Recept.* nudum. *Pappus* capillaris. *Flosculi* radii in duplii serie difformes, feminæ. *Flosculi* disci masculi bilabiati.
660. SILPHIUM. *Recept.* paleaceum. *Pappus* marginato-bicornis. *Cal.* squarrosus, foliaceus. *Sem.* compressa, obcordata, marginata.
- 661 POLYMNIA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* duplex: exterior 4-5-phyllus; interior 10-phyllus, foliolis concavis.
662. CHRYSOGONUM. *Recept.* paleaceum. *Pappus* 1-

- phyllus, 3-dentatus. *Cal.* 5-phyllus. *Sem.* calyculo 4-phyllo involuta.
663. **BALTIMORA.** *Recept.* paleaceum. *Pappus* nullus. *Flosc.* radii 5. *Cal.* cylindricus, polyphyllus. *Sem.* 3-quatra.
664. **PARTHENIUM.** *Recept.* paleaceum, planum. *Pappus* nullus. *Cal.* 5-phyllus. *Sem.* obovata.
665. **IVA.** *Recept.* pilosum. *Pappus* nullus. *Cor.* radii 5. *Antheræ* approximatæ, non coalitæ. *Stylî* 2. longi. *Cor.* radii 5. *femineis* minimis. *Cal.* 3-phyllus.
666. **AMBROSIA.** *Monoica.* *Musc.* *Recept.* nudum. *Antheræ* approximatæ, non coalitæ. *Cal.* 1-phyllus, hemisphæricus, multiflorus. *Fem.* *Cal.* 1-phyllus, subinteger aut 5-dentatus, 1-florus. *Cor.* nulla. *Stylî* 2. *Nux e calyce indurato*, 1-sperma.
667. **XANTHIUM.** *Monoicum.* *Musc.* *Recept.* paleaceum. *Antheræ* approximatæ, non coalitæ. *Cal.* polyphyllus, imbricatus, hemisphæricus, multiflorus. *Fem.* *Cal.* involucrum 2-phyllum, 2-florum. *Cor.* 0. *Stigm.* 2. *Drupa* sicca, muricata, 2-fida. *Nucleus* 2-locularis.

V. SEGREGATA.

668. **ELEPHANTEPUS.** *Recept.* nudum. *Pappus* setaceous. *Calyculus* 4-florus. *Corollulæ* ligulatæ, bermaphroditæ.
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I. *AEQUALIS.*

593. **CICHORIUM.** *Gen. pl. 1251.*

Intybus.

1. *C.* floribus axillaribus geminis subcesilibus, foliis runcinatis. *Willd.* sp. pl. 3. p. 1624.
Icon. *Fl. dan.* 907. *Engl. bot.* 539.
 In fields and on road sides : Pennsylvania, near Philadelphia. Most certainly introduced from Europe. 4. July, Aug. v. v. Flowers beautiful blue.

594. APARGIA. Gen. pl. 1232.

1. *A. scapis ramosis declinatis squamosis, foliis lanceolatis runcinato-pinnatifidis glabriusculis.* Willd. sp. pl. 3. p. 1550.
Leontodon autumnale Sp. pl. 1123.
Hedypnois autumnalis. Smith fl. brit. 2. p. 826.
Icon. Fl. dan. 501. Engl. bot. 830.
In pastures and on road sides : New England. 2. Aug.
Sept. v. v. Flowers golden-yellow, outside red. It
is probably an introduced plant.

595. SCORZONERA. Gen. pl. 1230.

1. *S. caule erecto 3-floro, pedunculis elongatis, foliis lan- ceolatis acutissimis acute-pinnatifidis interdum rariter dentatis.* Mich. fl. amer. 2. p. 89.
Leontodon carolinianum. Walt. fl. car. 192.
In waste places : Carolina. Michaux. +.

596. LEONTODON. Gen. pl. 1237.

1. *L. calyce exteriore reflexo, scapo unifloro, foliis runci- natis glabris, lacinias lanceolatis dentatis.* Willd. sp. pl. 3. p. 1544.
Icon. Fl. dan. 574. Engl. bot. 510.
Common in fields and grass plots ; probably introduced.
2. April—July. v. v. Flowers yellow ; it is gene- rally known by the name of *Dandelion*. There is another species, found in shady wet woods, which I consider indigenous, but I have no materials in hand to give its description.

597. CHONDRILLA. Gen. pl. 1235.

1. *C. glaberrimum, multicaule ; foliis linear-lanceolatis in- tegerrimis, pedunculis 2-3. longissimis subaphyllis uni- floris.*
In Lower Virginia. 3. Aug. Sept. v. v. Flowers bright yellow ; pappus turns a pale red ; the peduncles are from six to ten inches long, with a few linear, small leaves.

598. PRENANTHES. *Gen. pl.* 1236.

- junccea.* 1. *P. caule virgatim-ramosissimo sulcato glabro, foliis caulinis remotis subulatis brevissimis, ramulis unifloris, calycibus 5-fidis 5-floris: foliolis margine membranaceis.*
On the banks of the Missouri. $\frac{1}{2}$. v. s. Flowers purple; it has a striking resemblance to *Chondrilla junccea*; but the leaves are shorter, and the pappus entirely sessile; the radical leaves I have not seen.
- altissima.* 2. *P. caule ramoso, foliis trilobis petiolatis angulatis denticulatis margine scabris, racemis axillaribus, floribus nutantibus, calycibus sub-5-floris.* — *Willd. sp. pl.* 3. p. 1537.
Icon. *Pluk. alm. t. 317. f. 2.*
In shady woods: Canada to Virginia. $\frac{1}{2}$. July—Sept. v. v. Flowers yellow. Generally a very tall robust plant.
- cordata.* 3. *P. caule superne paniculato, foliis petiolatis cordatis dentatis ciliatis, floralibus sessilibus oblongis integerrimis, panicula laxa racemiflora, floribus nutantibus, calycibus 6-fidis 6-floris.* — *Willd. hort. berol.* 25.
In shady woods, about rocks; New York to Virginia. $\frac{1}{2}$. Aug.—Oct. v. v. Flowers pale yellow. It is an intermediate species between the preceding and *P. alba*.
- virgata.* 4. *P. glabra; caule simplicissimo, foliis omnibus lyrato-sinuatis, racemulis subsecundis, floribus pendulis, calycibus glabris 8-fidis 10-floris.* — *Mich. fl. amer.* 2. p. 83.
P. autumnalis. *Walt. fl. car.* 193.
In sandy fields, near ditches: New Jersey to Carolina. $\frac{1}{2}$. Aug. Sept. v. v. From three to six feet; flowers pale purple. This plant has a very fine effect in large plantations. Michaux quotes Gronovius; but his *P. autumnalis* belongs to *P. rubicunda*.
- simplex.* 5. *P. caule simplicissimo, foliis superioribus linear-lanceolatis integerrimis, radicalibus lanceolatis sinuatis, racemo terminali simplicissimo, floribus nutantibus, calycibus sub-8-floris.*
P. virgata. *Willd. sp. pl.* 3. p. 1533.
In Carolina. *Enslen.* $\frac{1}{2}$. July, Aug. v. s. in *Herb. Enslen.* About two feet high; flowers purple.



Prenanthes serpentaria.

6. *P. foliis lato-lanceolatis in petiolum attenuatis inaequaliter angulato-dentatis, panicula fasciculis terminalibus paucifloris nutantibus, calycibus hirsutis 10—12-fidis sub-20-floris.*—*Mich. fl. amer. 2. p. 84.*
 In Illinois and on the high mountains of Carolina. *Michigan. 4. +.* *crepidina:*
7. *P. foliis radicalibus angulato-hastatis dentatis sublobatis, caulinis subrotundo-ovatis dentatis petiolatis, summis lanceolatis, panicula laxa, fasciculis terminalibus nutantibus, calycibus 8-fidis 9—10-floris.*—*Willd. sp. pl. 3. p. 1536.*
P. suavis. Parad. lond. 85.
Icon. Bot. mag. 1079.
 In shady woods: New England to Carolina. *4. Aug.*
 Sept. *v. v.* About two feet high; calyces purple,
 flowers white. *alba.*
8. *P. foliis ciliatis, radicalibus hastato-angulatis subintegerimis, inferioribus obovatis basi attenuatis subangulatis, summis lanceolatis integerimis, racemo simplici, floribus nutantibus.*—*Willd. sp. pl. 3. p. 1537.*
P. alba β. Sp. pl. 1122.
P. autumnalis. Gron. fl. virg. 1. p. 89.
 In shady woods: Pennsylvania to Carolina. *4. Aug.*—
 Oct. *v. v.* Resembles the preceding; not above
 eighteen inches high. *rubicunda.*
9. *P. foliis dentatis asperis, radicalibus palmato-sinuatis, caulinis longe petiolatis sinuato-pinnatifidis subtrilobis: lacinia intermedia 3-partita, summis lanceolatis, racemis terminalibus subpanciculatis brevibus nutantibus, calycibus 8-fidis 12-floris.*
 On the mountains of Virginia and Carolina. *4. Aug.*—
 Oct. *v. v.* About two feet high; flowers pale
 purple. This plant is known by the inhabitants under
 the name of *Lion's-foot*, and is in high esteem as a
 specific in curing the bite of the rattlesnake. During
 my travels through the mountains of Virginia, I had
 an opportunity of being a witness of the efficacy of
 this remedy. A man living in Cove-mountains, near
 the Sweet-springs, was bit in the foot by a Moccasin
 snake, a species considered the most dangerous. An
 inflammation and swelling of his whole leg took place
 immediately; but by taking the milky juice of this plant
 boiled in milk, inwardly, and applying to the wound the
 steeped leaves, which were very frequently changed,
 he was cured in a few days. As this plant deserves
Serpentaria.

the attention of the physician, I have given a figure of it, it being frequently confounded with another species of this genus, which probably may not have quite so strong an effect, as the inhabitants are very careful to have the true *Lion's-foot*, in case of accidents happening, and usually call the other species of *Prenanthes* *False Lion's-foot*. Gronovius, in his Flora, pag. 113, mentions Dr. Witt's *Snake-root* under *P. autumnalis* or Willdenow's *rubicunda*, as a remedy for the bite of the rattlesnake; which shows that he had information of the use made of this plant, though he did not know the genuine species. In the Banksian Herbarium is a specimen of *P. rubicunda*, with the following note in the hand-writing of Clayton: "This is the rattlesnake-root that Dr. Witt supposes to be the best cure for the bite of the snake, a very odd plant, hardly two leaves alike upon a plant, as to shape or the indentings of the leaves."

- racemosa.* 10. *P. caule simplici, foliis omnibus indivisis laevibus, radicibus ovali-lanceolatis, caulinis semiamplexicaulibus, racemo oblongo hirsutissimo, fasciculis cernuis, calycibus 8-9-partitis 9-12-floris.* *Mich. fl. amer.* 2, p. 84.
In the northern parts of Canada. *Michaux.* +.
- illinoensis.* 11. *P. caule simplici, foliisque asperimis, foliis omnibus indivisis ovali-lanceolatis, racemo longo, fasciculis subsessilibus erectis hirsutis.* *Pers. syn.* 2, p. 366.
P. aspera. *Mich. fl. amer.* 2, p. 83.
In natural meadows in the Illinois country. *Michaux.* +.

599. LACTUCA. *Gen. pl.* 1234.

- elongata.* 1. *L. foliis subtus laevibus, inferioribus runcinatis integerim amplexicaulibus, infimis dentatis, summis lanceolatis, floribus corymboso-paniculatis.* *Willd. enum.* 817. *Willd. sp. pl.* 3, p. 1525.
L. longifolia. *Mich. fl. amer.* 2, p. 85 ?
In woods, on road sides, in fertile soil: Canada to Carolina. ♂. Aug. Sept. v. v. From three to six feet high. Flowers small, pale yellow.
- graminifolia.* 2. *L. caule erecto simplici, foliis inermibus plerisque indivisis basi simplici longissime linearibus, panicula aphylla laxa, ramis rarifloris, floribus omnibus pedunculatis.* *Mich. fl. amer.* 2, p. 85.
In Lower Carolina. *Michaux.* +.

600. SONCHUS. *Gen. pl.* 1233.

1. *S. pedunculis calycibusque hispidis subumbellatis, foliis runcinatis denticulatis basi cordatis, radice repente.*
Smith fl. brit. 2. p. 817. Willd. sp. pl. 3. p. 1512.
Icon. *Engl. bot.* 674. *Curt. fl. lond.* 53.
Among rubbish and in cultivated grounds : Pennsylvania.
4. Aug. Sept. v. v. Flowers large, deep yellow.
 2. *S. pedunculis subtomentosis umbellatis, calycibus glabris, foliis oblongo-lanceolatis amplexicaulibus denticulatis subsinuatis.* *Willd. sp. pl. 3. p. 1514.*
Icon. *Fl. dan.* 682. *Curt. fl. lond.* 58.
A common weed in most gardens and fields. ①. July
—Sept. v. v. Flowers yellow.
 3. *S. pedunculis hirsutis nudis, floribus paniculatis, foliis *macrophyllus*. lyratis basi cordatis subtus hirtis.* *Willd. sp. pl. 3. p. 1519.*
S. canadensis. *Fralich. in uesteri annal.* 1. p. 29.
Chondrilla sylvestris alta. *Gronov. virg.* 115.
In shady low grounds, near springs : Pennsylvania to Carolina. 4. Aug. Sept. v. v. From four to seven feet high; flowers blue, the size of *Cichorium Intybus*; root tuberous.
 4. *S. pedunculis hirsutis nudis, floribus racemosis bracteatis, foliis runcinatis basi sagittatis glabris subtus glaucis.*
Willd. sp. pl. 3. p. 1519.
S. montanus. *Lam. encycl.* 3. p. 401.
S. cæruleus. *Smith fl. brit.* 2. p. 815.
S. canadensis. *Sp. pl.* 1115.
Hieracium cæruleum. *Scop. fl. carn. n.* 976.
Icon. *Fl. dan.* 182.
In Canada. 4. Aug. Sept. v. s. Flowers blue, and sometimes white.
 5. *S. pedunculis squamosis, floribus racemosis, foliis runcinatis acuminatis, caule paniculato-virgato.* *Willd. sp. pl. 3. p. 1520.*
S. spicatus. *Lam. encycl.* 3. p. 401.
On the borders of woods, on road sides : New England to Virginia. 3. July—Sept. v. v. Flowers small, white, tinged with blue.
 6. *S. pedunculis subsquamosis, floribus paniculatis, foliis lyato-runcinatis denticulatis petiolatis.* — *Willd. sp. pl. 3. p. 1520.*
- arvensis.*
oleraceus.
alpinus.
leucophaeus.
floridanus.

On road sides, in shady woods: Virginia and Carolina.
♂. July—Sept. v. v. Flowers very small, blue.
This plant has been used for curing the bite of the
rattlesnake, in the same manner as *Prenanthes Ser-*
pentaria, and is known by the name of *Gall of the*
Earth.

- acuminatus.* 7. *S. pedunculis subsquamosis, floribus paniculatis, foliis*
radicalibus subruncinatis, caulinis ovatis acuminatis
petiolatis medio denticulatis. —*Willd. sp. pl. 3.*
p. 1521.
Lactuca villosa. Jacq. hort. schœnb. 3. t. 367?
In low shady places: Pennsylvania to Virginia. ♂. Aug.
Sept. v. v. Flowers small, blue.
- pallidus.* 8. *S. racemo composito terminali, foliis lanceolato-ensi-*
formibus amplexicaulibus dentatis. *Willd. sp. pl. 3.*
p. 1521.
Lactuca canadensis. Sp. pl. 1119.
Icon. Rot. ic. 148 & 151.
On road sides and in woods: Canada to New England.
♀. July—Sept. v. v. Flowers small, yellow.
- pulchellus.* 9. *S. pedunculis squamosis, floribus corymboso-racemosis,*
foliis caulinis cordato-amplexicaulibus ovato-oblongis
acutis integerrimis glabris.
On the banks of the Missouri. ♀. Sept. v. s. Flowers
large, beautiful blue.

601. HIERACIUM. Gen. pl. 1238.

- pusillum.* 1. *H. pusillum, villosissimum; caule simplici erecto uni-*
floro remote subbifoliato, foliis lanceolatis attenuatis
acutis integerrimis, caulinis linearibus, calyce villosi-
simo. —*Willd. sp. pl. 3. 1561.*
In Labrador. *Colmaster.* ♀. July. v. s. in *Herb.*
Dickson. A very small plant; flowers, as in all the
following species, yellow, the size of a common daisy.
It strongly resembles *H. alpinum*, and is probably only
a diminutive variety thereof.
- venosum.* 2. *H. scapo nudo corymboso-paniculato glabro, pedicellis*
filiformibus, foliis obovato-lanceolatis supra rarer pi-
losis, subtus nudis margine ciliatis glanduloso-dentica-
latis, venis coloratis, calycibus glabris. —*Willd. sp.*
pl. 3. p. 1570.
In shady fertile woods: Canada to Carolina. ♀. June
—Aug. v. v. Flowers middle size, of a beautiful

yellow; the light green leaves are elegantly marked with blood-red veins. It is known by the name of *Poor Robin's Plantain*, and thought to possess considerable medicinal powers.

3. *H. scapo folioso corymboso-paniculato, calycibus pedunculique glanduloso-pilosus, follis obovatis obtusis integrimis, supra rarer strigoso-villosis, nervo medio subtus villosissimo.* — *Willd. sp. pl. 3. p. 1570.*
- a. *H. caule subunifoliato, panicula subfastigiata.* *Mich. fl. amer. 2. p. 87.*
- β. H. caule parce folioso, panicula oblonga.* *Mick. l. c. H. mariannum. Willd. sp. pl. 3. p. 1572.*
Icon. Pluk. mant. t. 3. O. f. 2.
 In woods and on dry hills: Canada to Carolina. $\frac{1}{4}$. July, Aug. v. v. Flowers small.
4. *H. pilosum; caule erecto simplici folioso, corymbo paucifloro, foliis oblongo-lanceolatis attenuatis inferne paucidentatis, radicalibus petiolatis.* — *Willd. sp. pl. 3. p. 1577?*
Icon. Jacq. austr. t. 119.
 In Labrador. *Colmaster.* $\frac{1}{4}$. July—Sept. v. s. in *Herb. Dickson.* Flowers middle size.
5. *H. glabriusculum; caule erecto folioso paniculato inferne paniculatum.* albo-lanato, pedicellis capillaribus, foliis lanceolatis nudis dentatis membranaceis. — *Willd. sp. pl. 3. p. 1572.*
 In shady woods: Canada to Carolina; principally on the mountains. $\frac{1}{4}$. July—Sept. v. v. Flowers very small.
6. *H. caule erecto multifloro glabro, foliis subsessilibus lanceolatis acuminatis extrorum argute dentatis, pedunculis in apice caulis alternis subunifloris tormentosis.* — *Willd. sp. pl. 3. p. 1586.*
 In Pennsylvania. *Kalm.* +. Flowers small, upright, leaves small. It is singular, that in no part of North America could I find a plant answering to this description given by Linnæus.
7. *H. caule erecto simplici villoso, foliis sessilibus lanceolatis acutis glabris subtus pilosis margine divaricato-argute-dentatis versus apicem integeritatis: dentibus divaricatis, panicula subcorymbosa, calycibus pedunculique tormentosis.* — *Lambert. herb. ms.*
H. canadense. Mich. fl. amer. 2. p. 86?
 In the western part of New York and Canada. $\frac{1}{4}$.

SYNGENESIA ~~MEVALIS~~. Hieracium.

July—Sept. v. v.; v. s. in *Herb. Lambert*. Flowers middle size.

- fasciculatum*. 8. *H. glabriusculum*; caule erecto folioso simplici glabro; foliis sessilibus oblongis acutis argute-dentatis: dentibus elongatis, ramis paniculae divaricatis brevibus, pedicellis subfasciculatis pubescentibus.

In Canada. *Masson*. 2. v. s. in *Herb. Lambert*. A tall robust plant; flowers middle size.

- scabrum*. 9. *H. hirsutissimum*; caule erecto folioso hispido punctis fuscis scaberrimo, foliis oblongo-ovatis integris utrinque hirsutis, panicula simpliciuscula multiflora calycibusque glanduloso-hispidis, pedicellis brevibus divaricatis.—*Mich. fl. amer. 2. p. 86.*

In woods; in shady, rocky situations: Pennsylvania. 2. Aug. Sept. v. v. From three to five feet high; flowers small.

- macrophyllum*. 10. *H. altissimum*; caule erecto folioso hispido sulcato, foliis cordato-semiamplexicaulibus ovato-oblongis remote grosse-dentatis nudiusculis, nervis venisque subtus pubescentibus, panicula divaricato-corymbosa, pedunculis elongatis nudis calycibusque glabris.

In Canada. 2. v. s. in *Herb. Lambert*. A very robust plant; leaves the largest of the genus; flowers large.

602. KRIGIA. Gen. pl. 1244.

- virginica*. 1. *K. pusilla*; foliis lyratis glaucis glabriusculis margine ciliatis, scapo 1-floro foliis duplo altiore, calyce sub-8-phyllo.—*Willd. sp. pl. 3. p. 1618.*

Hyoseris virginica. *Sp. pl. 1138.*

Icon. Lam. journ. hist. nat. 1. t. 12.

In pastures, grassy hills, fields, and road sides: Canada to Florida. 2. May—July. v. v. Flowers deep yellow, small.

603. HYOSERIS. Gen. pl. 1242.

- montana*. 1. *H. glaberrima*, procumbens; foliis lanceolatis integerimis, scapo 1-floro.—*Mich. fl. amer. 2. p. 87.*

In the mountains of Carolina. *Michaux*. +.

- angustifolia*. 2. *H. foliis linear-lanceolatis sensim acutissimis glabellis, dentibus rarioribus exertis, scapo 1-floro*. *Mich. fl. amer. 3. p. 87.*

Hyoseris major. *Walt. fl. car. 194.*

In fields and pastures: Virginia and Carolina. ♂. ♂.
July, Aug. v. v. Flowers large, bright yellow.

3. *H. foliis lyratis basi acutis superne dilatatis apice truncatis hirsutis, scapis 1-floris.* — *Walt. fl. car.* 194. *caroliniana*.
In Carolina. *Walter.* +.

604. TROXIMON. *Gært. carp.* 2. p. 360. *Pers. syn.* 2.
p. 360.

1. *T. scapo unifloro, calycinis foliolis imbricatis cuspidatis, foliis linearibus integerrimis utrinque glaucis.* *glaucum.*
On the banks of the Missouri. ♂. v. s.; v. v. in *Hortis*. Flowers bright yellow.
2. *T. glabrum, glaucum; caule erecto 2-3-fido subnudo, foliis glabris, radicalibus sublyratis, caulinis amplexicaulis lanceolatis integerrimis glabris.* — *Pers. syn.* 2. p. 260. *virginicum.*

Hyoseris amplexicaulis. *Mich. fl. amer.* 2. p. 87.

Hyoseris prenanthoides. *Willd. sp. pl.* 3. p. 1615.

Hyoseris biflora. *Walt. fl. car.* 194.

Tragopogon virginicum. *Sp. pl.* p. 1111.

In meadows and moist shady woods: Pennsylvania to Carolina. ♀. July, Aug. v. v. About a foot high; flowers handsome, yellow.

605. STOKESIA. *L'Herit. sert. angl.* 27.

1. *S. foliis lanceolatis, caule folioso, pedunculis axillaribus 1-floris.* — *Willd. sp. pl.* 3. p. 1703. *cyanea.*
Carthamus levis. *Hill. kew. p.* 57. t. 5.
Icon. *L'Herit. l. c. t.* 38.
In South Carolina. ♀. v. s. in *Herb. Banks.* Flowers large, purple, very handsome.

606. ARCTIUM. *Gen. pl.* 1253.

1. *A. foliis caulinis cordatis petiolatis denticulatis, floribus peniculatis globosis, calycibus laevibus.* — *Willd. sp. pl.* 3. p. 1631. *Lappa.*
Icon. *Fl. dan.* 642. *Engl. bot.* 1228.
On road sides, among rubbish, and in cultivated grounds; frequent. ♂. July, Aug. v. v. Flowers purple.
Common Burdock. Has probably been introduced.

607. CNICUS. *Gen. pl.* 1255.

- lanceolatus.* 1. *C. foliis decurrentibus biispidis pinnatifidis, lacinia bilobis divaricatis spinosis, calycibus ovatis arachnoideo-pubescentibus, squamis lanceolatis spinosis patentibus.* *Willd. sp. pl.* 3. p. 1666.
Carduus lanceolatus. Sp. pl. 1149.
 On road sides; common every where. ♂. June—Sept. v. v. Flowers large, purple.
- altissimus.* 2. *C. foliis sessilibus oblongo-lanceolatis scabris subtus tomentosis dentatis ciliatis, radicalibus pinnatifidis, calycibus bracteatis ovatis, squamis ovato-lanceolatis spinosis adpressis.* *Willd. sp. pl.* 3. p. 1671.
Carduus altissimus. Sp. pl. 1154.
Carduus virginianus. Walt. fl. car. 195.
Cirsium repandum. Mich. fl. amer. 2. p. 89.
Cirsium altissimum. Gron. fl. virg. 117.
 In old fields: Virginia and Carolina. ♀. July—Sept. v. v. Flowers large, purple.
- arvensis.* 3. *C. foliis sessilibus pinnatifidis glabriusculis ciliatis spinosis, caule paniculato, calycibus ovatis mucronatis, squamis lato-lanceolatis adpressis margine lanatis.*
Carduus arvensis. Smith fl. brit. 2. p. 850.
Serratula arvensis. Willd. sp. pl. 3. p. 1646.
Icon. Fl. dan. 644. *Engl. bot.* 975. *Mart. fl. rust.* 132.
 In fields and on road sides: Canada and New England.
 ♀. July—Sept. v. v. Flowers small, purple. It is one of the most troublesome weeds, and when once introduced on a plantation it is almost impossible to get rid of it.
- muticus.* 4. *C. foliis omnibus pinnatifidis subtus lanuginosae: lacinia spinulosae sublanceolatis acutis, ramis in summitate pluribus audiusculis unifloris, calyce globoso, squamis maticis.*
Cirsium muticum. Mich. fl. amer. 2. p. 89.
Carduus carolinianus. Walt. fl. car. 195.
 In the mountains of Virginia and Carolina. ♂. July—Sept. v. v. Flowers middle-sized, purple.
- virginianus.* 5. *C. simpliciusculus; foliis sessilibus lanceolatis subtus cano-tomentosis remote dentatis, dentibus spinosis, floribus solitariis, calyce globoso, squamis mucronatis.*
Carduus virginianus. Willd. sp. pl. 3. p. 1659.
Cirsium virginianum. Mich. fl. amer. 2. p. 90.
Icon. Jacq. obs. bot. 4. t. 99.

In the mountains of Virginia and Carolina. ♀. July—
Sept. v. v. Flowers purple.

6. *C. elatius*; foliis sessilibus pinnatifidis acute incisis spinosissimis, involucro terminali unifloro polyphyllo: foliolis geminatim spinosissimis, calycibus inermibus. *Serratula discolor*. *Lam. encycl.* 6. p. 565.
Cirsium horridulum. *Mich. fl. amer.* 2. p. 90.
Carduus spinosissimus. *Walt. fl. car.* 194.
 On the banks of rivers and borders of woods: Pennsylvania to Carolina. ♀. July—Sept. v. v. Very tall; flowers large, pale yellow.

608. CARDUUS. *Gen. pl.* 1254.

1. *C. inermis*; foliis decurrentibus lanceolatis pinnatifido-pectinatis, pedunculis terminalibus longissimis unifloris subaphyllis, floribus defloratis cernuis calycinis squamis linearibus patulis.—*Willd. sp. pl.* 3. p. 1655.
 In Pennsylvania. ♂. +. Flowers purple, the size of *Arctium Lappa*. It probably is a species of *Cnicus*.

609. LIATRIS. *Gen. pl.* 1263.

* *Spicatae seu racemosae; bulbosae.*

1. *L. caule simplici*, elato; foliis linearibus glabris basi ciliatis nervosis et punctatis, spica longissima, floribus sessilibus, squamis calycinis lineari-oblongis obtusis appressis.—*Mich. fl. amer.* 2. p. 91.
L. spicata. *Willd. sp. pl.* 3. p. 1636.
Anonymos graminifolius. *Walt. fl. car.* 197.
Serratula spicata. *Sp. pl.* 1147.
Icon. Bot. rep. 401. *Pluk. alm. t.* 424. *f. 6.*
 In natural meadows: Pennsylvania to Carolina. ♀. Aug.—Oct. v. v. From three to six feet high; flowers, as all the following species, purple, in very long and close spikes.
2. *L. caule simplici hirsuto*, foliis strictis angusto-linearibus pubescentibus, spica longa, floribus confertim sessilibus, calycibus appressis superne squarroso.—*Mich. fl. amer.* 2. p. 91.
Anonymos pilosa. *Walt. fl. car.* 197.
Icon. Dill. eth. t. 72. *f. 83.*
 In mountain meadows: Virginia, Illinois, and Carolina. ♀. Aug.—Oct. v. v. From two to four feet high; flowers smaller than No. 1.

- graminifolia.* 3. L. caule simplici glabro, foliis linearibus longissimis glabris nervosis margine scabriusculis costa media interno subpilosis, floribus spicatis remotiusculis subsessilibus, calycinis squamis oblongis obtusis mucronatis ciliatis appressis, interioribus coloratis.—*Willd. sp. pl. 3. p. 1636 exclus. syn. Walteri.*
- Serratula compta. Herb. Banks. mss.*
In South Carolina and Georgia. *Bartram. 4. Aug.—Oct. v. v.* About two or three feet high; flowers the size of No. 2; leaves very long and narrow.
- heterophylla.* 4. L. caule simplici glabro, foliis lanceolatis glabris levibus: superioribus lineari-lanceolatis multoties minoribus, calycibus spicatis brevissime pedunculatis subequarrosis: squamis lanceolatis acutis nudis.—*Willd. enum. 503.*
- L. varia. *Herb. Banks. mss.*
In South Carolina and Georgia. *Fraser. Bartram. 4. Aug.—Oct. v. s. in Herb. Banks. nec non Lambert.* Flowers the size of the preceding.
- aspera.* 5. L. caule subramoso scabro-pubescente, foliis linearilanceolatis asperrimis, calycibus brevibus spicatis distincte alterni solitariis sessiliibus: squamis rotundato-obtusis conniventibus.—*Mich. fl. amer. 2. p. 92.*
- Anonymos ramosus. Walt. fl. car. 198.*
In South Carolina and Illinois. *Walter. Michaux. 4. Aug.—Oct. v. s.* Flowers larger than any of the foregoing species.
- cylindracea.* 6. L. gracilis, tota hirsuta; foliis gramineis, spica rariflora, calycibus subsessilibus cylindraceis papifloris, squamis apice rotundatis abrupte mucronatis. *Mich. fl. amer. 2. p. 93.*
- In woods and meadows of South Carolina and Illinois. *4. Aug. Sept. v. s. in Herb. Fraser.*
- pilosa.* 7. L. caule simplici pubescente, foliis linearibus pilosis ciliatis, calycibus racemosis laxiusculis: squamis linearib. oblongis obtusiusculis, pedicellis bracteolatis.—*Willd. sp. pl. 3. p. 1636.*
- Anonymos ciliatus. Walt. fl. car. 197.*
In pine-barrens and sandy fields: New Jersey to Carolina. *4. Sept.—Nov. v. v.* A low species; flowers the size of No. 2.
- gracilis.* 8. L. caule simplici glabro, foliis linearibus nudis, calycibus racemosis subglobosis: squamis oblongis obtusiusculis appressis, pedicellis elongatis patentibus squamoso-bracteolatis.

- In Georgia. *Bartram.* Aug.—Oct. *v. s. in Herb. Banks.*
Flowers smaller than any preceding species.
9. *L. caule simplici yilloso, foliis linearibus subfalcatis sca-*
bro-punctatis, spica subfoliosa, pedicellis brevibus,
calycinis squamis intimis ligulatis coloratis.—*Willd.*
sp. pl. 3. p. 1635. *elegans.*
- Serratula speciosa.* *Ait. kew. 3. p. 138.*
Stæhelina elegans. *Walt. fl. car. 202.*
- Eupatorium speciosum.* *Vent. hort. cels. 79.*
In sandy fields: Carolina to Florida. \mathcal{U} . Sept.—Nov.
v. v. A beautiful perennial; flowers in long close
spikes, purplish-red.
10. *L. caule simplici pubescente, foliis laevibus: inferioribus*
petiolatis lato-lanceolatis, superioribus lanceolato-li-
nearibus, calycibus racemosis solitariis alternis subglo-
bosis: squamis ovatis acutiusculis erectis, margine ci-
liatis.—*Mich. fl. amer. 2. p. 92.* *sphaeroidea.*
- On high mountains of Virginia and Carolina. \mathcal{U} . Aug.
—Oct. *v. v.* Flowers large and handsome.
11. *L. caule simplici subpubescente, foliis lanceolatis utrin-*
que attenuatis glabris margine scabris, calycibus race-
mosis alternis distantibus inferne squarrosis; squamis
spathulatis margine membranaceo coloratis.—*Willd.*
sp. pl. 3. p. 1635. *scariosa.*
- L. squarrulosa.* *Mich. fl. amer. 2. p. 92.*
Serratula scariosa. *Sp. pl. 1147.*
Icon. *Pluk. alm. t. 177. f. 4.*
In mountain meadows: Virginia to Carolina. \mathcal{U} , Aug.
—Oct. *v. v.* Flowers the size of No. :0.
12. *L. caule simplici pubescente, foliis longissime linearibus*
nervosis margine scabriusculis, racemis paucifloris fo-
liosis, calycinis squamis superne foliaceis lanceolatis
rigidis patentibus.—*Willd. sp. pl. 3. p. 1634.* *squarrosa.*
- Serratula squarrosa.* *Hort. cliff. 392.*
Pteronia caroliniana. *Walt. fl. car. 202.*
Icon. *Dill. elth. t. 71. f. 82.*
- In sandy woods and fields: Virginia, Kentucky, and
Carolina. \mathcal{U} . Sept. Oct. *v. v.* Flowers large, very hand-
some. This and the preceding are known among the
inhabitants of those countries by the name of *Rattle-*
snake's Master. In case of being bit by this horrible
animal, they bruise the bulbs of this plant and apply
it to the wound, while, at the same time, they make

a decoction of it in milk, which is taken inwardly, in the same manner as I have mentioned under *Prenanthes serpentaria*.

** *Paniculæ seu corymbosæ; non bulbosæ.*

- pauciflora.* 13. L. caule simplici glabro ; foliis linearibus, panicula virgata foliosa, ramis brevibus paucifloris, calycibus subsessilibus secundis 3—5-floris : squamis erectis lanceolatis acutis glabris.
In Georgia. *Bartram.* 4. v. s. in *Herb. Banks.* Flowers small, the size of No. 4.
- paniculata.* 14. L. caule simplici panicula calycibusque piloso-viscosis, foliis inferioribus lanceolatis attenuatis nervosis glabris : caulinis minoribus sessilibus, panicula coarctata fasciculata, calycibus sub-5-floris : squamis lanceolatis acutiusculis. — *Willd. sp. pl. 3. p. 1037.*
Anonymos paniculatus. *Walt. fl. car. 198.*
In pine-barrens : Virginia to Florida. 4. Aug.—Oct. v. s. in *Herb. Enslen.* Flowers the smallest of all the species here enumerated.
- odoratissima.* 15. L. glaberrima ; caule simplici ; foliis radicalibus oblongis, caulinis amplexicaulibus, panicula corymbosa laxo-divaricata, calycibus sub-8-floris : squamis lanceolatis obtusiusculis. — *Willd. sp. pl. 3. p. 1037.*
Anonymos odoratissimus. *Walt. fl. car. 198.*
Icon. Bot. rep. 633.
In open swamps : Carolina to Florida. 4. Sept. Oct. v. v. Flowers a little larger than the preceding. It is generally called *Carolina Vanilla-plant.* The leaves, when dry, give a very agreeable scent, resembling somewhat that of *Vanilla*, which they maintain for years if kept dry and inclosed.
- tomentosa.* 16. L. caule simplicissimo foliisque cuneato-lanceolatis hirsutis, corymbo paucifloro depresso divaricato, ramis 1—2-floris, calycibus tomentosis : squamis ovatis acutis. — *Mich. fl. amer. 2. p. 93.*
In open swamps : Virginia and North Carolina. 4. Aug.—Oct. v. v. About eighteen inches high ; flowers the size of No. 1.
- bellidifolia.* 17. L. pumila, glabella ; foliis cuneato-ob lanceolatis, corymbo inæquali, floribus omnibus longiuscule pedicellatis, calycinis squamis oblongo-ovalibus obtusis. *Mich. fl. amer. 2. p. 93.*

Anonymos uniflorus. *Walt. fl. car.* 198.
In dry gravelly fields of North Carolina. *Michaux.*
 γ . +.

610. VERNONIA. *Gen. pl.* 1262.

1. *V. caule simplici nudiusculo, foliis serratis: radicalibus oblongo-ovatis, caulinis lanceolatis, corymbo paniculato.* — *Mich. fl. amer.* 2. p. 94.
Chrysocoma acaulis. *Walt. fl. car.* 196.
 a. *V. utroque flore pedunculato.*
 b. *V. altero flore subsessili.*
In South Carolina. γ . v. s. in *Herb. Walter.* Flowers, as all the following, purple.
2. *V. caule simplici, foliis crebris longe angusteque linearibus subintegris, corymbo subumbellato, calycinis squamis rigide mucronatis.* *Mich. fl. amer.* 2. p. 94.
Chrysocoma angustifolia. *Walt. fl. car.* 196.
In barren sandy woods: Virginia to Georgia. γ . Aug.
Sept. v. s. in *Herb. Enslen.* Flowers the size and figure of *V. præalta*.
 angustifolia.
3. *V. foliis longo-linearibus rarer serratis, floribus corymbosis erecto approximatis, calycibus ovoideis levibus, squamis muticis.* *Mich. fl. amer.* 2. p. 85.
In natural meadows: Illinois. *Michaux.* Virginia. *Ph.*
 γ . Aug.—Oct. v. v. Flowers small.
 fasciculata.
4. *V. caule altissimo anguloso dense pubescente, foliis crebris lanceolatis acute serratis subtus pubescensibus, corymbo fastigiato, calycinis squamis ovatis acutis muticis.* — *Willd. sp. pl.* 3. p. 1633.
Serratula præalta. *Sp. pl.* 1146.
Chrysocoma tomentosa. *Walt. fl. car.* 196.
Icon. *Dill. elth. t.* 264. f. 343. *Mill. ic.* 234. *Pluk. atm. t.* 280. f. 6.
On road sides and borders of woods: New England to Carolina. γ . Aug.—Oct. v. v. A tall rough-looking plant.
 præalta.
5. *V. altissima; foliis crebris lanceolatis serrulatis scabris, corymbo fastigiato, calycinis squamis apice filiformibus.* — *Willd. sp. pl.* 3. p. 1632.
Serratula noveboracensis. *Hort. cliff.* 392.
Chrysocoma gigantea. *Walt. fl. car.* 196.
Icon. *Dill. elth. t.* 263. f. 342. *Pluk. atm. t.* 109. f. 3.
On road sides and old pastures: Canada to Carolina. γ . Aug.—Oct. v. v. About five feet high.
 noveboracensis.

611. KUHNIA. *Gen. pl. 1272.*Critonia. *Gärt. carp. 2. p. 411.*Dalea. *Brown. jam. 314.*

- eupatorioides.* 1. K. glabra ; foliis petiolatis lato-lanceolatis serratis, corymbo terminali paucifloro coarctato.—*Willd. sp. pl. 3. p. 1772.*

Eupatorium alternifolium. *Ard. spec. 2. p. 40. t. 20.*Icon. *Linn. fil. dec. t. 11. Plak. aln. t. 87. f. 2.*

In shady woods, about rocks : Pennsylvania to Virginia.

q. Aug. Sept. v. v. Flowers white ; resembles an Eupatorium exceedingly.

- Critonia.* 2. K. pubescens ; foliis angusto-lanceolatis inferne subdentatis petiolatis subtus punctatis : superioribus linearibus integerrimis sessilibus, panicula terminali divaricata.—*Willd. sp. pl. 3. p. 1773.*

Critonia Kuhnia. *Mich. fl. amer. 2. p. 101.*Icon. *Gärt. carp. 2. t. 174. f. 7.*On high mountains of Pennsylvania and Virginia. *q. Aug. Sept. v. v. Flowers pale yellow.*612. EUPATORIUM. *Gen. pl. 1272.** *Calycibus 3—5-floris.*

- foeniculace-*
um. 1. E. caule paniculato, foliis glabris inferioribus pinnatis, superioribus fasciculatis, omnibus filiformibus.—*Willd. sp. pl. 3. p. 1750.*

E. foeniculoides. *Walt. fl. car. 199.*Chrysocoma capillacea. *Mich. fl. amer. 2. p. 101.*In fields and on road sides, near the sea-coast : Virginia to Florida. *q. Aug.—Oct. v. v. From two to five feet high, resembling an Artemisia very much ; flowers in great abundance, small, pale yellow.*

- coronopifoli-*
um. 2. E. caule paniculato, foliis infimis pinnatifidis, reliquis indivisis fasciculatis linearibus integerrimis. *Willd. sp. pl. 3. p. 1750.*

E. compositifolium. *Walt. fl. car. 199.*Chrysocoma coronopifolia. *Mich. fl. amer. 2. p. 102.*In dry woods, on road sides : Carolina. *q. Aug. Sept. v. v. Flowers white, double the size of the preceding.*

- hyssopifoli-*
um. 3. E. foliis oppositis subverticillatis linearibus integerrimis pubescentibus trinervibus punctatis, radicalibus subdentatis. *Willd. sp. pl. 3. p. 1749.*

- Icon. *Dill. elth t. 115. f. 140. Pluk. atm. t. 88. f. 2.*
 In dry pine-barrens and sandy fields : New Jersey to California. ♀. Aug.—Oct. v. v. About a foot high ; leaves small : flowers white, as all the following are, unless a different colour is mentioned.
4. *E. foliis linear-lanceolatis denticulatis obsolete 3-nervi-linearifolium.*
bus pubescensibus, inferioribus oppositis verticillatis,
superioribus alternis. Willd. sp. pl. 3. p. 1750. Walt.
fl. car. 199.
 In low sandy fields : New Jersey to Carolina. ♀. Aug.—Nov. v. v. The calyx is covered with resinous dots.
5. *E. foliis sessilibus amplexicaulibus distinctis ovato-lan-* *sessilifolium.*
ceolatis basi rotundatis serratis glaberrimis, caule gla-
briusculo. Willd. sp. pl. 3. p. 1751.
 About rocks, particularly lime-stone, and throughout the Allegany mountains. ♀. Aug. Sept. v. v. About two feet high ; very smooth.
6. *E. foliis sessilibus amplexicaulibus distinctis lanceolatis* *basi truncatis serratis glabriusculis, caule pubescente.* *Willd. sp. pl. 3. p. 1751.* *truncatum.*
 In shady woods, about rocks : Pennsylvania to Virginia. ♀. July—Oct. v. v. Resembles the preceding species.
7. *E. foliis subsessilibus oblongo-lanceolatis scabriusculis* *serratis, calycinis squamis interioribus elongatis lanceo-*
latis scariosis coloratis. Willd. sp. pl. 3. p. 1752. *album.*
 In woods and swamps : Pennsylvania and Virginia. ♀. Aug.—Oct. v. v. About eighteen inches high.
8. *E. foliis sessilibus distinctis oblongo-lanceolatis scabris* *lanceolatum.*
basi profunde serratis, calycinis squamis concoloribus. *Willd. sp. pl. 3. p. 1752.*
 In low copes and dry swamps : Pennsylvania to Virginia. ♀. Aug.—Nov. v. v. Resembles the preceding species.
9. *E. foliis sessilibus distinctis ovatis scabris, superioribus teucrifolium.*
basi grosse serratis, summis integerrimis. Willd. sp.
pl. 3. p. 1753.
E. pilosum. Walt. fl. car. 199.
E. verbenaefolium. Mich. fl. amer. 2. p. 98.
 Icon. *Willd. hort. berol. 32.*
 In swamps and low woods : New England to Carolina. ♀. Aug.—Nov. v. v. About two feet high.

- cuneifolium*. 10. E. foliis petiolatis obovato-lanceolatis spicie subserratis triplinervibus utrinque pubescentibus. *Willd. sp. pl. 3. p. 1753.*
E. Marrubium. Walt. fl. car. 199.
 In low sandy fields: Virginia and Carolina. ¼. Aug.—Oct. v. v. Not above a foot high.
- melissoides*. 11. E. foliis petiolatis ovatis obtusiusculis obtuse serratis venosis glabriusculis. *Willd. sp. pl. 3. p. 1754.*
 In Pennsylvania. ¼. Aug.—Oct. +. Resembles No. 9; but the leaves are smaller, petiolated, and smooth.
- rotundifoli-* 12. E. foliis sessilibus distinctis subrotundo-cordatis obtuse serratis venosis, calycinis squamis acuminatis.—*Willd. sp. pl. 3. p. 1754.*
 Icon. *Pluk. alm. t. 88. f. 4.*
 In swamps and shady woods: Canada to Carolina. ¼. Aug.—Nov. v. v. About a foot or eighteen inches high.
- pubescens*. 13. E. foliis sessilibus distinctis ovatis scabris venosis, inferioribus duplicato-serratis, superioribus subeerratis, caule paniculato pubescente, ramis fastigiatis. *Willd. sp. pl. 3. p. 1755.*
E. glandulosum. Mich. fl. amer. 2. p. 98?
 In dry sandy woods: New Jersey to Carolina. ¼. Aug.—Oct. v. v. Not above two feet high.
- ceanothifoli-* 14. E. foliis petiolatis ovatis acuminatis dentatis triplinervibus glabris. *Willd. sp. pl. 3. p. 1755.*
 In shady woods, about rocks: New York to Virginia. ¼. Aug.—Nov. v. v. Resembles *Ceanothus americanus* in its foliage exceedingly.
- altissimum*. 15. E. foliis subsessilibus lanceolatis 3-nervibus utrinque attenuatis pubescentibus, inferioribus medio serratis. *Willd. sp. pl. 3. p. 1754.*
 Icon. *Jacq. hort. viend. 164.*
 In low sandy woods: Pennsylvania and Virginia, and on the banks of the Mississippi and Missouri. ¼. Aug.—Oct. v. v. From three to seven feet high.
- amaenum*. 16. E. foliis brevi-petiolatis oppositis ternatisque lanceolato-oblongis utrinque acutis serratis glabriusculis subrugosis subtus reticulato-venosis, panicula corymboso-fasciculata confertiflora, calycinis squamis oblongis acutiusculis coloratis.
 On the New Jersey mountains. ¼. Sept. Oct. v. v.

About two feet high ; stem solid, smooth, purple; peduncles tomentose; flowers small, but very closely collected in a corymbose panicle, of a beautiful pale purple inclining to flesh colour.

17. *E. foliis petiolatis ternis quaternis ovatis utrinque attenuatis serratis scabriusculis.* Willd. sp. pl. 3. p. 1756.
In swamps and on the banks of rivers: New York to Virginia. 4. Aug.—Oct. v. v. A tall plant without branches. *trifoliatum.*
18. *E. glabellum*; *foliis quaternis ovali-lanceolatis utrinque acuminatis subfalcatis rarietate serratis, squamis calycinis extimis brevibus ovalibus.*—Mich. fl. amer. 2. p. 99.
On the banks of the Ohio and Scioto rivers. Michaux. 4. +. A tall plant, resembling *E. album*. *falcatum.*
- ** *Calycibus plus quam 5-floris.*
19. *E. foliis petiolatis quaternis quinise ovato-lanceolatis serratis rugoso-venosis scabriusculis, caule fistuloso.* Willd. sp. pl. 3. p. 1759.
Icon. Rob. ic. 217. Corn. canad. t. 72. Moris. hist. 3. s. 7. t. 13. f. 4. Dod. mem. t. 217.
In swamps, wet woods, and on the banks of rivulets: Canada to Virginia. 4. Aug.—Oct. v. v. Very tall; flowers purple. *purpureum.*
20. *E. foliis petiolatis quaternis quinise ovato-lanceolatis inaequaliter serratis subtus pubescentibus, caule solido sulcato.* Willd. sp. pl. 3. p. 1760.
Icon. Herm. parad. t. 158. Moris. hist. 3. s. 7. t. 18. f. 3.
In swamps and near ponds and rivulets: Canada to Carolina. 4. Aug.—Oct. v. v. Stem marked with purple lines, not so tall as the preceding species; flowers purple. *maculatum.*
21. *E. foliis petiolatis quaternis quinise ovatis acuminatis serratis utrinque scabris, caule solidi tereti.* Willd. enum. 853.
E. maculatum. Hortul.
In the Blue-mountain: New Jersey and Pennsylvania. 4. Aug.—Oct. v. v. Not so tall as the preceding; flowers purple, very ornamental. *punctatum.*
22. *E. foliis petiolatis ternis quaternis ovato-lanceolatis, basi cuneatis inaequaliter serratis glabriusculis, caule solidi laevi.* Willd. sp. pl. 3. p. 1760. *verticillatum.*

On the banks of rivers and in swamps; frequent: New York to Carolina. v. v. From four to six feet high; flowers purple. It differs from No. 18 in its stem, broader and smoother leaves, and white calyces; from No. 19 in its stem and smooth leaves.

- perfoliatum.* 23. *E. foliis connato-perfoliatis oblongis sursum angustatis serratis rugosis subtus tomentosis, caule viloso.*—*Willd. sp. pl. 3. p. 1761.*

E. connatum. Mich. fl. amer. 2. p. 99.

Icon. *Pluk. alm. t. 87. f. 6.*

In low meadows and about springs: Canada to Florida. 24. Aug.—Oct. v. v. From two to three feet high; flowers white. The whole plant is exceedingly bitter, and has been used for ages past by the natives and inhabitants in intermitting fevers. It is generally known by the name of *Thorough-wort* or *Bone-set*. I have stated a case of its efficacy in those diseases in a letter to William Royston, Esq. who inserted it in the Medical and Physical Journal. In which I stated the benefits derived from this plant, by myself and others during my stay in the neighbourhood of lake Ontario, when both the influenza and lake fever (similar to the yellow fever) were raging among the inhabitants. It is generally used as a decoction, or, which I consider the more effectual way, as an infusion in gin or rum.

- caeruleum.* 24. *E. foliis petiolatis cordato-ovatis obtusiusculis triplineribus obtuse serratis, floribus corymbosis.* *Willd. sp. pl. 3. p. 1764.*

Icon. *Dill. elth. t. 114. f. 159.*

In mountain-woods of Virginia to Carolina. 24. Aug.—Oct. v. v. Flowers large, beautiful blue.

- aromaticum.* 25. *E. foliis petiolatis ovatis acutis trinervibus obtuse-serratis glabris, caule superne paniculato, floribus corymbosis, calycibus simplicibus.* *Willd. sp. pl. 3. p. 1765.*

Icon. *Pluk. alm. t. 88. f. 3.*

In woods and on the banks of rivers: Pennsylvania to Florida. 24. Aug.—Oct. v. v. Flowers large, clear white, sweet-scented.

- ageratoides.* 26. *E. foliis petiolatis ovatis acuminatis trinervibus inaequaliter grosse serratis glabris, corymbo multifloro divaricato, calycibus subsimplicibus.* *Willd. sp. pl. 3. p. 1765.*

E. urticaefolium. Mich. fl. amer. 2. p. 100.

Ageratum altissimum. Sp. pl. ed. 2. p. 1176.

Icon. *Moris. hist. 3. s. 7. t. 18. f. 11.*

The most common species in the Allegany mountains, and near the sea-coast from Canada to Pennsylvania.
q. Aug.—Oct. v. v. About two feet high; flowers white.

27. *E. foliis longe-petiolatis subdeltaideo-lanceolatis rarer serratis, calycinis squamis tomentosis obtusis, caule pulverulento.* —*Mich. fl. amer. 2. p. 100.*

serotinum.

On the sea-coast of Carolina, among *Scirpus*, &c.
Michaux. q. Sept.—Nov. +. Flowers white.

613. MIKANIA. *Willd. sp. pl. 3. p. 1742.*

1. *M. caule scandente glabro, foliis cordatis repando-dentatis acuminatis lobis divaricatis inaequalibus, floribus corymbosis.* *Willd. sp. pl. 3. p. 1743.*

scandens.

Eupatorium scandens. Sp. pl. 1171.

Icon. Jacq. ic. rar. 1. t. 169. Pluk. alm. t. 163. f. 3.

On the banks of rivers and ditches: Canada to Carolina.

q. July—Sept. v. v. A twining plant; flowers very numerous, white with a tinge of blue. There is another species, found in Carolina, with flesh-coloured fragrant flowers, but I have no materials at hand to give its description.

614. CHRYSOCOMA. *Gen. pl. 1019.*

1. *C. foliis radicalibus spathulato-lanceolatis, caulinis linearibus rarer sparsis, caule subnudo, corymbo composite fastigiato, calycibus oblongis 3—4-floris.* *Mich. fl. amer. 2. p. 101.*

nudata.

In low grounds, in the forests of North and South Carolina. *q. Aug.—Oct. v. v.* A plant of singular appearance, the stem almost leafless; the large flat corymbus consists of small flowers, entirely yellow; even the calyx is deeply coloured.

2. *C. glabra; foliis linearibus 3-nervibus punctato-scabris, floribus corymbosis congestis, calycibus laxis 5-floris glabris.* —*Lam. encycl. 2. p. 192.*

dracunculoides.

C. biflora. Sp. pl. 1178. secundum specimen Pallasianum in Herbario Lambertiano asservatum.

On high cliffs on the banks of the Missouri. *M. Lewis.*

q. Oct. v. s. in Herb. Lewis. From one to two feet high; flowers large, yellow.

3. *C. calycibus pedunculis foliisque sublanato-pubescenti-*

nauseosa.

bus ; foliis angustissime linearibus, corymbo laxiusculo, calycibus laxis 5-floris : squamis interioribus divaricatis glabris.—*Pallas. mss. in Herb. Lambert.*

On the banks of the Missouri. *M. Lewis.* 4. Oct. v. s. in *Herb. Lewis.* Flowers yellow, somewhat smaller than the preceding.

615. CACALIA. Gen. pl. 1275.

suaveolens. 1. C. caule herbaceo, foliis petiolatis hastato-sagittatis serratis glabris concoloribus, floribus corymbosis erectis, calycibus multifloris.—*Willd. sp. pl. 3. p. 1734.*

On the banks of rivers : Pennsylvania to Carolina. 4. Aug.—Oct. v. v. From three to four feet high ; flowers white ; anthers yellow.

atriplicifolia. 2. C. caule herbaceo, foliis petiolatis glabris subitus glaucis, radicalibus cordatis dentatis, caulinis rhombatis utrinque subbidentatis, floribus corymbosis erectis, calycibus 5-floris.—*Willd. sp. pl. 3. p. 1734.*

Icon. *Pluk. alm. t. 101. f. 1. Moris. hist. 3. s. 7. t. 15. f. 7.*

In low and overflowed places, near rivers : Canada to Carolina. 4. Aug.—Oct. v. v. Flowers white, considerably smaller than the preceding.

reniformis. 3. C. caule herbaceo, foliis petiolatis glabris subitus ad venas pilosis, radicalibus amplis cordatis reniformibus repando-dentatis, caulinis oblongis dentatis basi cuneatis integrermis, corymbis fastigiatis, calycibus multifloris. *Willd. sp. pl. 3. p. 1735.*

On the banks of rivers : Pennsylvania to Virginia. 4. Aug.—Oct. v. v. From five to ten feet high ; flowers white.

616. SPARGANOPHORUS. Gært. carp. 2. p. 395.

verticillatus. 1. S. foliis setaceo-linearibus verticillatis, caule subunifloro, papo campanulato 5-dentato.—*Mich. fl. amer. 2. p. 95.*

Ethulia uniflora. *Walt. fl. car. 195. Willd. sp. pl. 3. p. 1742.*

Icon. *Mich. fl. amer. 2. t. 42.*

In overflowed swamps and rivulets : New Jersey, Carolina, and Florida. 4. Aug.—Oct. v. v. Floating in the water ; flowers purple, the size of a large daisy.

617. HYMENOPAPPUS. *L'Herit.* monog. *Mich. fl. amer.* 2. p. 103.

Rothia. Lam. illustr. t. 667.

1. *H. candicanti-lanuginosus*; foliis profunde pinnatifidis, lacinias linearis-oblongis subdentatis, floribus corymbo-so-paniculatis.—*Mich. fl. amer.* 2. p. 104.

Rothia carolinensis. Journ. de hist. nat. no. 1, cum icono. In Carolina. ♂. +. Flowers white, the size of *Liatris scariosa*.

618. MELANANTHERA. *Mich. fl. amer.* 2. p. 106.

1. *M. foliis triplinerviis ovatis acuminatis scabris inaequaliter dentatis, inferioribus subcordatis, superioribus hastato-trilobatis, pedunculis terminalibus corymbosis, paleis receptaculi lanceolatis acuminatis.*—*Mich. fl. amer.* 2. p. 107.

Bidens nivea. Willd. sp. pl. 3. p. 1721.

Athanasia hastata. Walt. fl. car. 201.

α. *M. foliis profunde trilobatis.*

Icon. Dill. elth. t. 47. f. 55.

β. *M. foliis leviter lobatis panduriformibus.*

Icon. Dill. elth. t. 46. f. 54.

On the banks of rivers: Carolina to Florida. ♀. Aug.—Oct. v.v. Flowers large; white.

619. MARSHALLIA. *Gen. pl.* . . .

Trattenickia. Pers. syn. 2. p. 403.

Persoonia. Mich. fl. amer. 2. p. 104.

1. *M. caule simplici inferne folioso superne nudato, foliis longo-lanceolatis, calycinis foliolis obtusis, paleis spatulatis.*

Persoonia lanceolata. Mich. fl. amer. 2. p. 105.

Athanasia obovata. Walt. fl. car. 201.

In the Carolina mountains. ♀. v.s. in *Herb. Walter.*

Flowers resembling a *Scabious*, pale purple, and like all the following very ornamental.

2. *M. caule simplici, foliis lanceolato-ovalibus acuminatis trinervibus, infimis vaginantibus, calycinis foliolis acutis, paleis angusto-linearibus.*

Persoonia latifolia. Mich. fl. amer. 2. p. 105. t. 43.

Athanasia trinervia. Walt. fl. car. 201.

In the Carolina mountains. $\frac{1}{4}$. v. s. in *Herb. Walter.*

- angustifolia.* 3. *M. caule ramoso, foliis infimis angusto-lanceolatis, ramulis angustissime linearibus, calycinis foliolis rigidis superne angustatis acutissimis, paleis setaceis.*
Persononia angustifolia. Mich. fl. amer. 2. p. 106.
Athanasia graminifolia. Walt. fl. car. 200.
 In Tennessee. *Michaux.* In swamps, near Wilmington, North Carolina. *Ph.* $\frac{1}{4}$. June, July. v. v.
 The handsomest species of this genus.

620. SANTOLINA. Gen. pl. 1278.

- suaveolens.* 1. *S. glabra; caule corymboso-ramoso, foliis subbijunctifidis, laciniis acutis linearibus, pedunculis terminalibus unifloris.*
 On the banks of the Kooskoosky. *M. Lewis.* O. June—Aug. v. v.; v. s. in *Herb. Lewis.* A small plant of an agreeable sweet scent; flowers yellow.
Planta glabra. Caulis erectus, ramosus: rami corymbosi uniflori. Folia sessilia tenuissime pinnatifida, laciniis inciso-2-3-fidis, omnibus acutis angusto-lineari-bus. Pedunculi terminales, solitarii, uniflori. Calyx hemisphaericus, subimbricato-polyphyllos: foliolis ovalibus, obtusis, glabris, viridibus, margine albido-membranaceis, laceris. Cor. discoidaea. Discus globosus, luteus. Corollulae germe oblique insertae, tubulose, 4-fidae? laciniis erectis. Genitelia inclusa. Receptaculum conicum, paleaceum. Paleis sparsis, oblongis, obtusis. Pappus nullus. Semina obliqua obovata.

II. SUPERFLUA.

621. ARTEMISIA. Gen. pl. 1281.

* *Foliis simplicibus.*

- integrifolia.* 1. *A. cano-tomentosa; caule erecto virgato; foliis linearilanceolatis acuminatis subtus tomentosis subdentatis, floribus ovatis subsessilibus erectis tomentosis.—Willd. sp. pl. 3. p. 1846.*

- Icon. *Gmel. fl. sib. 2. t. 48. f. 1* ♂ 2.
On the cliffs and dry savannas of the Missouri. *M. Lewis.* ♀. Oct. *v. s. in Herb. Lewis.* About three feet high.
2. A. glabra; foliis linear-lanceolatis utrinque attenuatis, *Dracunculus.* floribus subtundis pedunculatis erectis.—*Willd. sp. pl. 3. p. 1848.*
Icon. *Gmel. fl. sib. 2. t. 59 & 60. f. 1.*
On the Missouri. *M. Lewis.* ♀. Aug.—Oct. *v. s. in Herb. Lewis.*
3. A. canescens; foliis longe linear-lanceolatis acutis nervosis utrinque canis: inferioribus cuneiformibus acute-3-lobis, floribus ovalibus glomeratis sessilibus axillaribus.
On the Missouri. *M. Lewis.* ♀. Sept.—Nov. *v. s. in Herb. Lewis.* *cana.*
4. A. canescens; foliis inferioribus cuneiformibus obtusis trilobis, superioribus linearibus obtusis, floribus globosis pedunculatis cernuis. *Willd. sp. pl. 3. p. 1848.*
Icon. *Gmel. fl. sib. 2. t. 61. f. 1 & 2. Pluk. amalit. t. 353. f. 5.*
On the north-west coast. ♀. Sept. Oct. *v. s. in Herb. Lambert.* Flowers large. *chinensis.*
- ** *Folius compositis; caule paniculato.*
5. A. foliis caulinis pinnatis linearibus glabris, ramis indissisis, spicis secundis reflexis, floribus subsessilibus 5-floris. *Willd. sp. pl. 3. p. 1826.*
Icon. *Gmel. fl. sib. 2. t. 51. Lob. ic. 756.*
On the plains of the Missouri. *M. Lewis.* ♀. Sept.—Oct. *v. s. in Herb. Lewis.* *Santonica.*
6. A. foliis caulinis setaceis pinnatis glabris, radicalibus pinnatis, lacinii 3-fidis incanis, caule procumbente ramoso virgato, floribus ovatis pedunculatis. *Willd. sp. pl. 3. p. 1827.*
Icon. *Engl. bot. 338.*
On the plains of the Missouri. *M. Lewis.* ♀. Sept.—Nov. *v. s. in Herb. Lewis.* *campestris.*
7. A. foliis incanis pinnatis, pinnis tripartitis linearibus acutis, floralibus pinnatis 3-partitisve, caule adscendente, floribus globosis nutantibus. *Willd. sp. pl. 3. p. 1838.* *frigida.*

SYNGENESIA SUPERFLUA. *Artemisia.*

On the plains of the Missouri. *M. Lewis.* 4. Oct.
Nov. v. s. in *Herb. Lewis.*

biennis.

8. A. foliis glabris, radicalibus tripartito-pinnatis, caulinis inferioribus pinnatifidis, superioribus indivisis linearibus, caule stricto, floribus subrotundis subsessilibus erectis. *Willd. sp. pl. 3. p. 1842.*

A. *hispanica. Jacq. ic. rar. 1. t. 172.*

On the banks of the Missouri. ♂. v. s. in *Herb. Lambert.*

vulgaris.

9. A. foliis subtus tomentosis, caulinis pinnatifidis, lacinii lanceolatis subdentatis acutis, floralibus indivisis linearibus lanceolatis, floribus subsessilibus oblongis erectis, calycibus tomentosis. *Willd. sp. pl. 3. p. 1845.*

Icon. *Engl. bot. 978.*

On the banks of rivers: Canada to New England. 4.
Sept.—Nov. v. v.

canadensis.

10. A. subdecumbens, parce pubescens; foliis planis linearipinnatifidis, ramulis spicifloris, floribus subhemisphaericis, calycibus scariosis. *Mich. fl. amer. 2. p. 129.*

In the moveable sands about Hudson's Bay. *Michaux.*
+. Receptacle smooth.

caudata.

11. A. erecta, glabra; foliis subsetaceo-pinnatifidis, laciiniis convexis, ramulis confertis, racemis terminalibus longissimis strictis, floribus pedicellatis globoso-ovatis.—*Mich. fl. amer. 2. p. 129.*

On the gravelly banks of the Missouri. *Michaux.* +.

*** *Foliis compositis; caule simplicissimo.*

spithamea.

12. A. pumila, sericeo-pubescent; foliis inferioribus linearibus superne pinnatifidis, laciiniis paucis linearibus acutis, floralibus simplicibus, floribus racemosis brevipedunculatis hemisphaericis, calycibus scariosis.

In Labrador. *Colmaster.* 4. Sept. Oct. v. s. in *Herb. Dickson.* Flower large, in proportion to the size of the plant; receptacle naked.

622. TANACETUM. *Gen. pl. 1280.*

vulgare.

1. T. foliis bipinnatis incisa serratis. *Willd. sp. pl. 3. p. 1814.*

Icon. *Oed. dan. 871.*

In cultivated grounds and on road sides : New England to Pennsylvania. ♀. July—Sept. v. v. Common Tansy is probably introduced from Europe.

623. BACCHARIS. Gen. pl. 1285.

1. B. glaberrima, paniculato-ramosissima ; foliis angusto-linearibus integerrimis, panicula composita multiflora, calycibus parvulis sub-20-floris.—*Mich. fl. amer.* 2. p. 125. *angustifolia*
On the sea-coast : Carolina to Florida ; on the banks of the Mississippi. *M. Lewis.* ♀. July—Sept. v. v. ; v. s. in *Herb. Lewis.* Flowers white, as all the following are.
2. B. foliis lœvibus cuneato-ovalibus superne dentatis, *glomeruliflora*. *glomerulus* floribus axillaribus sessilibus remotis, squamis calycinis superne ruas.—*Mich. fl. amer.* 2. p. 125.
3. In woods, on the coast of Virginia and Carolina. ♀. Aug.—Oct. v. v. Resembles the following.
4. B. foliis obovatis superne inciso-dentatis, panicula composita foliosa, fasciculis pedunculatis.—*Willd. sp. pl.* 3. p. 1915. *halimifolia*.
Icon. *Schmidt arb.* 82. *Herm. parad.* 225. *Pluk. qlm. t. 27. f. 2.*
On the sea-coast : Maryland to Florida. ♀. Sept.—Nov. v. v. The whole shrub is covered with a white powder.

624. CONYZA. Gen. pl. 1286.

1. C. herbacea, pubescens ; foliis sessilibus lato-lanceolatis *marylandica*. acutis serratis : serraturis apice cartilagineis, corymbis terminalibus fastigiatis coarctatis subaphyllis, calycinis squamis subulato-mucronatis flosculis brevioribus.—*Mich. fl. amer.* 2. p. 126. *exclus. syn. Walteri.*
Erigeron camphoratum. Willd. sp. pl. 3. p. 1960.
Icon. *Dill. elth. t.* 88. f. 104.
In overflowed places, near rivers and ponds : New York to Carolina. ♂. Aug.—Oct. v. v. About a foot high ; flowers reddish-purple ; the whole plant emits a strong scent of camphor, only more disagreeable.
2. C. herbacea, subpubescens ; foliis petiolatis ovato-lanceolatis acutissimis subrepando-denticulatis : denticulis *camphorata*.

SYNGENESIA SUPERFLUA: CONYZA.

glandulosis, corymbis terminalibus et axillaribus folio brevioribus, calycinis squamis acutis flosculos subequalibus.

Baccharis foetida. Willd. sp. pl. 3. p. 1918. Walt. fl. car. 202.

Icon. Dill. elth. t. 89. f. 105.

On the banks of rivers and in large swamps: South Carolina and Georgia. ♀. Aug. Sept. v. v. Flowers purple, smaller than the preceding; stem about three feet high.

bifrons.

3. C. herbacea, subglutinosa; foliis amplexicaulibus spatulato-oblongis acutis serratis, paniculae corymbulis capitato-globose.—Willd. sp. pl. 3. p. 1920.

C. amplexicaulis. Mich. fl. amer. 2. p. 120.

C. uliginosa. Pers. syn. 2. p. 427.

Baccharis viscosa. Walt. fl. car. 202.

Icon. Pluk. alm. t. 87. f. 4.

In low and overflowed fields: Carolina. ♀. July, Aug. v. s. in Herb. Gronov. Flowers pale yellow.

pycnostachya. 4. C. caule alato, foliis lanceolatis subtus tomentosis subinterimis, spica cylindrica densiflora.—Mich. fl. amer. 2. p. 126.

C. spicata. Cav. ic. 1. p. 8, t. 12?

Gnaphalium undulatum. Walt. fl. car. 203.

In dry fields and barren woods: Carolina to Florida. ♀. July—Sept. v. v. A singular-looking species, nearly allied to *C. virgata*.

625. GNAPHALIUM. Gen. pl. 1262.

margaritaceum. 1. G. herbaceum; foliis linear-lanceolatis sensim angustatis acutis, caule superne ramoso, corymbo fastigiat, floribus pedicellatis.—Willd. sp. pl. 3. p. 1881.

Icon. Engl. bot. 2018.

In Canada and on the mountains of New York and New Jersey. ♀. Aug.—Oct. v. v. About eighteen inches high; flowers large, white, with a yellow disk, very handsome.

polyccephalum. 2. G. herbaceum, erectum; foliis linear-lanceolatis acutis, supra glabris, subtus pubescentibus, caule paniculato tomentoso, corymbis terminalibus coarctatis.—Mich. fl. amer. 2. p. 127.

- G. obtusifolium. Willd. sp. pl. 3. p. 1880. excl. syn.
Dillenii.
In old fields and woods : New England to Carolina. ⊖.
July—Sept. v. v. About a foot high, spreading ;
flowers yellowish-white, not shining.
3. G. herbaceum ; foliis linearispathulatis subtus tomentosis, caule erecto simplicissimo, floribus sessilibus glomeratis terminalibus et axillaribus.—Willd. sp. pl. 3. p. 1884. *purpureum.*
Icon. Dill. elth. t. 109. f. 132.
In sandy barren soil : New York to Carolina. ¼. July
—Oct. v. v. Not above a span high ; flowers small,
calyces purple.
4. G. sarmentis procumbentibus, caule simplicissimo, foliis radicalibus ovatis nervosis mucronatis, corymbo coarctato, floribus dioicis, squamis calycinis interioribus elongatis acutiusculis coloratis.—Willd. sp. pl. 3. p. 1882. *plantagineum.*
Icon. Pluk. alm. t. 348. f. 9.
In woods and on sunny hills : Canada to Carolina, and
in the Allegany mountains. ¼. May—July. v. v.
Not above six inches high ; leaves large, resembling
plantain leaves ; flowers white.
5. G. caule non sarmentoso simplicissimo, foliis radicalibus lanceolatis, floribus terminalibus aggregatis sessilibus, calycinis squamis interioribus elongatis acutis membranaceis. Willd. sp. pl. 3. p. 1883. *alpinum.*
Icon. Fl. dan. 332.
In Labrador. Colmaster. ¼. v. s. in Herb. Dickson.
Not above four inches high ; resembling *G. dioicum.*
6. G. caule herbaceo simplicissimo erecto, foliis angustolanceolatis utrinque attenuatis et lanatis, floribus terminalibus axillaribusque sessilibus spicatis. Willd. sp. pl. 3. p. 1884. *sylvaticum.*
Icon. Fl. dan. 254.
In stony woods : New York and Canada. ¼. July, Aug.
v. v. About a foot or less high ; calyces shining, straw-coloured with brown.
7. G. caule herbaceo erecto ramoso, foliis obovato-spathulatis subtus pubescentibus, floribus axillaribus et terminalibus glomeratis spicatis. Willd. sp. pl. 3. p. 1887. *americanum,*

G. spathulatum. Lam. encycl. 2. p. 728.

In dry, sunny, and rocky situations: Pennsylvania to Virginia. ♂. July—Sept. v. v. About a span high; flowers small, pale straw-coloured.

- uliginosum.* 8. *G. caule herbaceo ramoso diffuso lanato, foliis linearilanceolatis utrinque angustatis tomentosis, floribus terminalibus congestis. Willd. sp. pl. 3. p. 1891.*
Icon. *Fl. dan. 859.*
In exsiccated pools: Canada to Virginia. ♂. Aug. Sept. v. v. About a span high; flowers small, calyces brown.

- germanicum.* 9. *G. herbaceum, caule erecto dichotomo, foliis linearilanceolatis acutis tomentosis, floribus globoso-capitatis alaribus terminalibusque. Willd. sp. pl. 3. p. 1894.*
Filago germanica. Sp. pl. 1311.
Icon. *Fl. dan. 997. Engl. bot. 946.*
In dry fields and pastures: Pennsylvania to Virginia. ♂. July, Aug. v. v. About a span high: calyces straw-coloured.

626. BELLIS. *Gen. pl. 1300.*

- integrifolia.* 1. *B. caulescens, divaricato-ramosa; foliis integerrimis, inferioribus obovatis, supremis lanceolatis, calycinis foliis acutissimis pilo acuminatis.—Mich. fl. amer. 2. p. 131.*
On banks of rivers and on shady hills in Tennessee.
Michaux. +.

627. CHRYSANTHEMUM. *Gen. pl. 1307.*

- Leucanthe-mum.* 1. *C. foliis amplexicaulibus lanceolatis serratis, basi inciso-dentatis, caule erecto ramoso. Willd. sp. pl. 3. p. 2142.*
Icon. *Fl. dan. 994. Engl. bot. 601.*
In meadows and fields: common every where, and probably introduced from Europe. ♀. June, July. v. v. A very troublesome weed; flowers large, white, resembling a daisy.
- arcticum.* 2. *C. foliis radicalibus tripartitis inciso-dentatis, caulinis cuneiformibus 3-partitis obtusis. Willd. sp. pl. 3. p. 2146.*
Icon. *Gmel. fl. sib. 2. t. 84.*

On the north-west coast. ♀. v. s. in *Herb. Lambert.*
About a foot high; flowers purplish-white, the size
of the preceding species.

628. PYRETHRUM. *Smith fl. brit. 2. p. 900.*

1. *P. foliis lanceolatis, inferioribus apice serratis, superioribus integerrimis, ramis corymbosis.* — *Willd. sp. pl. 3. p. 2151.*

Chrysanthemum serotinum. *Sp. pl. 1251.*

Icon. *Pluk. alm. t. 17. f. 2.* *Moris. hist. 3. s. 6. t. 9. f. 11.*

In North America. ♀. Oct. Nov. v. s. in *Herb. Lambert.* Flowers white, smaller than *Chrysanthemum Leucanthemum,*

629. ARNICA. *Gen. pl. 1296.*

1. *A. foliis remote dentatis subtus lanato-hirsutis, radicalibus petiolatis oblongis basi angustatis, caulinis alternis oblongo-lanceolatis, caule unifloro.* — *Willd. sp. pl. 3. p. 2108.*

Icon. *Jacq. fl. austr. 1. t. 92.* *Allion. fl. ped. t. 17. f. 1 & 2.*

In Labrador. *Colmaster.* ♀. July, Aug. v. s. in *Herb. Dickson.* Not above a span high; flowers large, yellow.

2. *A. glabra; foliis integerrimis utrinque glabris acutis trinervibus, radicalibus spatulato-lanceolatis basi in petiolum angustatis, caulinis oppositis lanceolatis sessilibus, caule unifloro.*

In Labrador. *Colmaster.* ♀. July, Aug. v. s. in *Herb. Dickson.* About a span high; flower the size of the preceding, yellow, the rays broad and 3-dentated.

3. *A. pubescens; foliis radicalibus lanceolatis obtusiusculis basi attenuatis petiolatis trinervibus, caulinis oppositis remotis linearibus, caule unifloro.*

On the banks of the Missouri. ♀. v. s. About a foot or more high, very slender; leaves on the stem generally two pairs; flowers somewhat smaller than the preceding, of a very deep and beautiful yellow.

4. *A. hirsuta; foliis radicalibus decussatim oppositis oblongo-ovatis subdentatis, caule subaphyllo summitate in pedunculos 1-floros diviso.*

serotinum.

Doronicum.

plantaginea.

fulgens.

Claytoni.

Doronicum nudicaule. *Mich. fl. amer.* 2. p. 121.

Doronicum acaule. *Walt. fl. car.* 205.

Doronicum foliis Plantaginis, &c. *Clayt. fl. virg.* no. 37.

In shady woods: Virginia to Florida. 4. July, Aug.
v. s. in *Herb. Gronov.* nec non *Walter*. About two
feet high; flowers large, of a fine yellow.

- maritima*. 5. A. *foliis lanceolatis, inferioribus serratis, caule foliost*
multifloro. *Willd. sp. pl.* 3. p. 2110.
On the north-west coast. 4. v. s. in *Herb. Banks*.
Flowers large, very handsome.

630. CINERARIA. *Gen. pl.* 1294.

- integrifolia*. 1. C. *lanato-tomentosa*; *caule simplici, foliis inferioribus*
spathulatis subdentatis, superioribus angusto-lanceola-
tis integerrimis erectis, floribus subumbellatis.—*Willd.*
sp. pl. 3. p. 2082.

Senecio tomentosus. *Mich. fl. amer.* 2. p. 119.

On the banks of the Missouri. *M. Lewis*. In Carolina
near Flat-rock. *Michaux*. 4. Aug. Sept. v. s.
in *Herb. Lewis*. About a foot high; flowers the size
of *Senecio Jacobaea*, yellow; the rays very short.

- heterophylla*. 2. C. *lanato-tomentosa*; *foliis radicalibus longe petiolatis*
spatulato-ovovatis, ovatis acutiusculis pinnatifidisque,
caulinis 2-3-linearibus pinnatifidis, floribus corym-
bosis.
On dry sunny rocks, in the Blue-mountains: Pennsylvania.
4. May, June. v. v. About a span high;
flowers deep yellow, the size of the preceding.

- canadensis*. 3. C. *villosa*; *foliis pinnatifidis subvillosis, laciniis sinuatis,*
floribus paniculatis.—*Willd. sp. pl.* 3. p. 2085.
In Canada. *Kalm*. 4. +. Resembles *C. maritima*,
but is not tomentose.

631. SENÉCIO. *Gen. pl.* 1290.

* *Floribus flosculosiosis: radiis nullis*.

- vulgaris*. 1. S. *foliis amplexicaulibus pinnatifidis dentatis, floribus*
corymboso-coarctatis.—*Willd. sp. pl.* 3. p. 1979.
Ioon. Fl. dan. 513. *Engl. bot.* 747.
In cultivated grounds as a weed; about Philadelphia and
some other places in Pennsylvania; introduced from
Europe. ① April—Oct. v. v. Flowers, as all the
following, yellow.

2. *S. caule* virgato-paniculato, foliis amplexicaulibus ob-longis acutis inaequaliter acuteque profunde dentatis, calycibus laevibus.—*Willd. sp. pl. 3. p. 1974.*

Icon. *Pluk. phyt. t. 112. f. 1. mala.*

On road sides and in newly cleared grounds: Canada to Carolina. ♂. July, Aug. v. v. From two to five feet high. This is one of the plants which spring up in the most remote western countries, when the land is cleared of timber, particularly when the brush-wood is burnt on the ground; from which circumstance it is generally known by the name of *Fire-weed*. I have frequently found it covering a square piece of cleared land, when there was not a single plant to be found in any other place for a considerable distance round it.

3. *S. glaber*; foliis radicalibus spathulatis serratis in petiolum attenuatis, caulinis pinnatifidis dentatis remotissimis, pedunculis elongatis umbellato-corymbosis.

On rocks, near the banks of rivers: about Easton, Pennsylvania. ♀. July, Aug. v. v. Resembling No. 8, but is destitute of a ray.

4. *S. glaber*; foliis radicalibus longe petiolatis ovato-subrotundis subcordatis dentatis, caulinis 2. remotis pinnatifidis dentatis, pedunculis brevibus subternis umbellatis.

S. tussilaginoides. *Walt. fl. car. 208?*

In Labrador. *Colmaster*. In Carolina. *Walter*. ♀.
v. s. in *Herb. Dickson*. Not above a span high.

** *Floribus radiatis*.

5. *S. caule* simplicissimo rigide erecto subnudo, foliis omnibus lanceolatis, radicalibus subintegris inciso-dentatis, corymbo paucifloro, calycibus glabellis, radiis parvulis.—*Mich. fl. amer. 2. p. 120.*

About lakes: Canada. *Michaux*. +. A small plant; flowers the size of *S. Jacobaea*.

6. *S. foliis* radicalibus longissime petiolatis orbiculatis subcordatis crenatis, caulinis paucis remotissimis linearioribus basi dilatatis inciso-dentatis, pedunculis brevissimis hirsutis subumbellatis, calycibus glabellis, radiis paucis brevissimis.

S. strictus. *Herb. Banks. mss.*

On the rocky banks of rivers; Pennsylvania. ♀. May—Aug. v. v.; v. s. in *Herb. Banks*. About a foot

gracilis.

- high, very slender; flowers the smallest of all the species here enumerated.
- obovatus.* 7. *S. foliis radicalibus obovatis crenato-serratis petiolatis, caulinis pinnatifidis dentatis, floribus subumbellatis longe pedunculatis, caule glabriusculo.*—*Willd. sp. pl. 3. p. 1999.*
- S. obtusatus. Herb. Banks. mss.*
On the side of hills and rocks, near rivers: New York to Virginia. $\frac{1}{4}$. June, July. *v. v.; v. s. in Herb. Banks.* Flowers nearly the size of *S. Jacobaea*.
- Balsamitæ.* 8. *S. foliis radicalibus oblongis serratis petiolatis, caulinis inferioribus lyrato-pinnatifidis serratis, summis pinnatifidis dentatis, floribus subumbellatis, caule pedunculisque basi villoso.*—*Willd. sp. pl. 3. p. 1998.*
- S. lyratus. Mich. fl. amer. 2. p. 120.*
S. glabellus. Lam. encycl. 7. p. 102.
In rocky fertile soil: Pennsylvania to Virginia. $\frac{1}{4}$. June, July. *v. v.* Flowers the size of the preceding.
- aureus.* 9. *S. foliis radicalibus ovatis cordatis serratis petiolatis, caulinis pinnatifidis dentatis, lacinia terminali lanceolata, pedunculus subumbellatis incrassatis.*—*Willd. sp. pl. 3. p. 1998.*
In shady woods, about rocks: Canada to Virginia. $\frac{1}{4}$. June, July. *v. v.* Flowers the same size as the preceding.
- Cymbalaria.* 10. *S. foliis radicalibus petiolatis subrotundis basi truncatis dentatis, petiolis appendiculatis sublyratis, caulinis sessilibus linearibus inciso-dentatis, caule subunifloro.*
On the north-west coast. *D. Nelson. v. s. in Herb. Banks.*
- canadensis.* 11. *S. foliis bipinnatis linearibus glabris, summis pinnatis, corymbis compositis fastigiatis.*—*Willd. sp. pl. 3. p. 1996.*
In Canada. *Kalm. +.*
- ciliatus.* 12. *S. caule piloso, foliis lanceolato-linearibus ciliatis.*—*Walt. fl. car. 208.*
In Carolina. *Walter. +.* From six to eight feet high; rays of the flower white.

632. TUSSILAGO. *Gen. pl.* 1289.

1. *T. thyro fastigiatum, floribus radiatis, foliis subrotundo-cordatis inaequaliter dentatis subtus tomentosis.* *Willd. sp. pl. 3. p. 1968.* *frigida.*
Icon. *Fl. dan. 61. Gmel. fl. sib. 2. t. 70.*
In Canada, and on the highest peaks of the Vermont and New Hampshire mountains. \mathcal{U} . May. *v. v.*
Flowers of the ray white, disk pale purple. .
2. *T. thyro ovato fastigiatum, floribus radiatis, foliis radicalibus oblongis acutis sagittatis integrerrimis, lobis obtusis.* *Herb. Banks. mss.* *sagittata.*
On Hudson's Bay. *Hutchinson.* \mathcal{U} . *v. s. in Herb. Banks.*
3. *T. thyro fastigiatum, floribus obsolete radiatis, foliis subrotundo-cordatis semi-septemlobis inciso-dentatis subtus tomentosis.* *Willd. sp. pl. 3. p. 1972.* *palmata.*
Icon. *Ait. kew. 3. t. 11.*
In Labrador. *Colmaster.* \mathcal{U} . April, May. *v. s. in Herb. Dickson.*

633. INULA. *Gen. pl.* 1295.

1. *I. foliis amplexicaulis ovatis rugosis subtus tomentosis, calycum squamis ovatis.* *Willd. sp. pl. 3. p. 2089.* *Helenium.*
Icon. *Fl. dan. 728. Engl. bot. 1546.*
In low meadows and on road sides : New England to Pennsylvania ; originally brought from Europe. \mathcal{U} . July, Aug. *v. v.* A tall rough-looking plant ; flowers large, and, as all the rest, yellow.
2. *I. villosa ; foliis sessilibus oblongo-lanceolatis basi attenuatis obtusis glanduloso-denticulatis, inferioribus petiolatis serratis, pedunculis axillaribus corymbosis glanduloso-pilosis.* — *Willd. sp. pl. 3. p. 2099. excl. syn. Plukenetii.* *mariana.*
I. glandulosa. Lam. encycl. 3. p. 259.
Icon. *Mill. dict. ic. t. 57.*
In dry sandy woods and fields : New Jersey to Carolina. \mathcal{U} . Aug.—Oct. *v. v.* A foot or more high ; flowers the size of *I. Britannica*.
3. *I. hispido-pilosa, scaberrima ; foliis arcte sessilibus oblongis acutis superne subdentatis utrinque scabris, pedunculis axillaribus corymbosis hispidis.* *scabra.*
I. subaxillaris. Lam. encycl. 3. p. 259.

Icon. *Plak. mant.* 340. f. 1. no. 5.

In the pine-barrens of South Carolina. 1/2. Aug. Sept.
v. s. in. *Herb. Enslen.* About two feet high; flowers
smaller than the preceding.

falcata.

4. I. lanato-villosa; foliis sessilibus linearibus acutissimis
subfalcato-patentibus nervosis utrinque pilosis, pedun-
culis paucis axillaribus corymbosis calycibusque vil-
losis.

Aster gracilentus. Herb. Banks. mss.

In sandy pine-woods: New Jersey. 1/2. Sept. Oct.
v. v. Not above a span high; flowers the size and
shape of No. 2.

gossypina.

5. I. lanuginoso-candicans; foliis sessilibus oblongo-spathu-
latis obtusis integerimis, corymbo subfastigato.—
Mich. fl. amer. 2. p. 122.

Inula lanata. Herb. Banks. mss.

On the sea-coast of Carolina and Florida. 1/2. Aug.—
Oct. v. s. About a foot high; flowers the size of
No. 3.

graminifolia.

6. I. argenteo-sericea; caule simplicissimo, foliis longissi-
me lanceolato-linearibus integerrimis erectis nervosis,
corymbo composito laxo, calycibus turbinatis, squa-
mis acutissimis carina serrato-glandulosis.—*Mich. fl.*
amer. 2. p. 122.

In sandy dry woods: Pennsylvania to Florida. 1/2. Aug.—
Oct. v. v. About a foot high; flowers small.

argentea.

7. I. sericea; foliis lanceolatis trinerviis erectis flexuosis,
corymbo subcomposito stricto, squamis calycinis planis
pubescentibus.—*Pers. syn.* 2. p. 452.

In Pennsylvania. *Persoon.* 1/2. +. Flower a great deal
larger than the preceding species, with which it has a
great affinity.

634. ERIGERON. *Gen. pl.* 1287.

alpinum.

1. E. villosum; caule plerumque unifloro, calycibus villo-
sis, radio patente, foliis lanceolatis obtusiusculis.—
Willd. sp. pl. 3. p. 1959. *Smith fl. brit.* 2. p. 877.

Icon. *Engl. bot.* 464. *Fl. dan.* 202.

In Labrador. *Colmaster.* 1/2. June, July. v. s. in
Herb. Dickson. The Labrador specimen is not above
two inches high; flower large, rays purple.

bellidifolium.

2. E. hirsutum, incanum; foliis radicalibus obovatis sub-
serratis, caulinis paucis distantibus lanceolatis integer-

rimis, caule sub-3-floro, radiis elongatis.—*Willd. sp.*
pl. 3. p. 1958.

E. serpentaria. *Herb. Banks. mss.*

E. pulchellum. *Mich. fl. amer. 2. p. 224.*

E. caule simplicissimo, &c. *Gron. fl. virg. 122.*

In shady woods, principally throughout the mountains : Canada to Carolina. 4. June—Aug. v. v. A foot or eighteen inches high ; flowers large, rays blueish-white ; sometimes it produces only one flower, and sometimes more than three. It is known by the name of *Poor Robin's Plantain*.

3. E. glabrum ; foliis radicalibus ovali-lanceolatis acutis subtentatis, caule simplicissimo subaphyllo elongato, corymbis terminalibus paucifloris, radiis longitudine calycis.—*Mich. fl. amer. 2. p. 224.* *nudicaule.*

Aster vernus. *Willd. sp. pl. 3. p. 2029. secundum specimen Clayton.*

In low grounds of Carolina and Georgia. 4. June—Aug. v. v.; v. s. in *Herb. Gronov.* A foot high ; flowers small, rays blueish-white.

4. E. tenue pubescens ; foliis lanceolatis acutis, inferioribus *quercifolium.* sublyratis grosse dentatis supremis integerrimis, caule subsimplici summitate 3-floro, radii calyce hemisphaerico duplo longioribus.—*Lam. encycl. 8. p. 491.*

Icon. *Lam. illustr. t. 681. f. 4.*

In Carolina and Florida. 4. July, Aug. v. s. in *Herb. Enslen.* Not above a span high ; flowers pale blue or white.

5. E. pubescens ; foliis cuneato-oblongis rarer inciso-dentatis, caulinis semiamplexicaulibus, caule debili simplici superne corymboso, pedunculis elongatis unifloris, radiis capillaceis calyce hemisphaerico duplo longioribus.—*Willd. sp. pl. 8. p. 1957. Mich. fl. amer. 2. p. 223.* *philadelphi-cum.*

In fields and dry woods : Canada to Carolina. 4. Aug. Sept. v. v. A delicate and handsome plant, from one to two feet high ; flowers the size of a common daisy, rays of a beautiful blueish-purple.

6. E. pubescens ; foliis oblongis dentatis amplexicaulibus, superioribus integerrimis, pedunculis corymbosis incrassatis, inferioribus elongatis, calycinis squamis carina pilosis, radiis calyce duplo longioribus.—*Willd. sp. pl. 3. p. 1958.* *purpureum.*

In pastures and on fertile hills, near the banks of rivers :

- Canada to Virginia. ♀. July, Aug. v. v. A foot or eighteen inches high; flowers large, purple, and very ornamental.
- strigosum.* 7. *E. strigoso-pilosum*; foliis lanceolatis utrinque attenuatis medio grosse paucidentatis seu integerimis, floribus corymboso-paniculatis.—*Willd.* sp. pl. 3. p. 1956.
In fields and dry pastures; common: Canada to Virginia. ♂. July, Aug. v. v. A very troublesome weed; flowers white, resembling the common daisy.
- nervosum.* 8. *E. albido-pubescent*; foliis linear-lanceolatis integerimis sericeis nervosis, floribus paniculatis.—*Willd.* sp. /pl. 3. p. 1953.
In old fields and woods; common: Canada to Virginia.
♀. July—Sept. v. v. Likewise a troublesome weed; flowers resembling the preceding.
- heterophyl-lum.* 9. *E. foliis radicalibus subrotundo-ovatis profunde dentatis petiolatis, caulinis lanceolatis acutis medio serratis, corymbo terminali.* *Willd.* sp. pl. 3. p. 1956.
Aster annuus. *Willd.* sp. pl. 3. p. 2041.
Icon. *Fl. dan.* 486.
In old waste fields and on road sides; common. ♂.
June—Aug. v. v. Flowers white.
- canadense.* 10. *E. caule hispido paniculatum ramosissimo, foliis lanceo-lato-linearibus ciliatis, calycibus cylindricis, radiis multiplice serie confertis brevissimis.*—*Willd.* sp. pl. 3. p. 1954.
In dry fields and on road sides; common: Canada to Florida. ♂. July—Sept. v. v. A common weed; flowers small.
- divaricatum.* 11. *E. divaricato-ramosissimum, subfastigiato-paniculatum*; foliis subulatis, floribus brevissime radiatis, corollulis disci 4-fidis.—*Mich. fl. amer.* 2. p. 123.
In fields and meadows of Kentucky, and on the banks of the Missouri and Mississippi. ♂. July—Sept. v. s. Resembles the preceding.
- longifolium.* 12. *E. glaberrimum*; caule virgatim-paniculato, ramis strictis, foliis longissime-linearibus strictis, calycibus ovatis, radiis vix calyce longioribus.—*Lam. encycl.* 8. p. 480.
In Carolina. ♀. July—Sept. v. s. About two feet high; rays yellow.
- hyssopifo- lium.* 13. *E. caule ramis sterilibus paniculato*: paucis in pedunculos nudos protractis, foliis linearibus glabris ciliatis,

radiis calyce cylindraceo multo longioribus. — *Mich. fl. amer.* 2. p. 123.

E. carolinianum. *Willd. sp. pl. 3. p. 1953.*

Icon. Dill. elth. t. 306. f. 394.

In low grounds: Canada to Carolina; rare. $\frac{1}{2}$. July—Sept. *v. s.* Resembles the preceding; rays yellow.

14. *E. pilosum*, subacaule; *foliis radicalibus longe petiolatis triplicato-3-partitis*, *laciiniis linearibus divaricatis*, *caulinis linearibus plerumque indivisis*, *caule superne nudo unifloro*. *compositum*.

On the banks of the Kooskoosky. *M. Lewis.* $\frac{1}{2}$. July, Aug. *v. s.*; *v. v. cultum*. Not above a span high; flowers resembling a daisy exceedingly; they change during their flowering, from white to a lively pale red.

635. SOLIDAGO, *Gen. pl. 1292.*

* *Racemis secundis; foliis triplinervibus.*

1. *S. caule villoso*, *foliis lanceolatis serratis triplinervibus scabris*, *racemis paniculatis secundis recurvis*, *ligulis abbreviatis.* *Willd. sp. pl. 3. p. 2055.* *canadensis*.

Icon. Pluk. atm. t. 263. f. 1.

In hedges, old fields, and along fences: Canada to Pennsylvania. $\frac{1}{2}$. July—Sept. *v. v.*; *v. s. in Herb. Banks. et Lambert.* From eighteen inches to five feet high; the flowers of all the following species are, like the present, yellow and small.

2. *S. caule villoso erecto*, *foliis lanceolatis serratis triplineribus scabris subtus villosis*, *racemis spiciformibus erectis*, *innuptis nutantibus*, *ligulis abbreviatis.* *Willd. sp. pl. 3. p. 2055.* *procera*.

In swamps, hedges, and about fences: Canada to Virginia. $\frac{1}{2}$. July—Sept. *v. v.*; *v. s. in Herb. Banks.* From four to seven feet high.

3. *S. caule erecto tereti lavi*, *foliis lineari-lanceolatis serratis glbris margine asperis triplinervibus*, *racemis paniculatis secundis*, *pedunculis pubescentibus.* — *Willd. sp. pl. 3. p. 2056.* *aerotina*.

In woods and hedges: New England to Pennsylvania. $\frac{1}{2}$. Sept. Oct. *v. v.*; *v. s. in Herb. Banks.*

4. *S. caule erecto glabro*, *foliis lanceolatis serratis margine scabris obsolete triplinervibus*, *racemis paniculatis se-* *gigantea*.

- cundis, pedunculis hirtis, ligulis abbreviatis. *Willd.*
sp. pl. 3. p. 2056.
 In open low places, on the side of fertile hills : New England to Virginia. $\frac{1}{4}$. Aug.—Oct. *v. v. ; v. s. in Herb. Banks.* From four to seven feet high.
- ciliaris.* 5. *S. caule erecto glabro, foliis lanceolatis subtripinnervibus glabris margine scabris subserratis, racemis paniculatis secundis, pedunculis glabris, bracteis ciliatis, ligulis abbreviatis. Willd. sp. pl. 3. p. 2056.*
 In Pennsylvania. *Muhlenberg.* $\frac{1}{4}$. +.
- reflexa.* 6. *S. caule erecto villosi, foliis lanceolatis subserratis tripli-nervibus scabris reflexis, rami paniculatis subsecundis reflexis. Willd. sp. pl. 3. p. 2056.*
 In pine-woods and old fields : New Jersey to Carolina. $\frac{1}{4}$. Aug. Sept. *v. v. ; v. s. in Herb. Banks.*
- lateriflora.* 7. *S. caule erecto pilosiusculo, foliis lanceolatis subtripinnervibus glabris margine scabris, inferioribus subserratis, racemis paniculatis subrecurvis secundis. Willd.*
sp. pl. 3. p. 2057.
 In old fields and dry woods : Canada to Carolina. $\frac{1}{4}$. Aug.—Oct. *v. v. ; v. s. in Herb. Banks.* Not more than half the size of No. 1 ; flowers larger than any of the preceding.
- *** *Racemis secundis ; foliis venosis.*
- aspera.* 8. *S. caule erecto tereti piloso, foliis ovatis subellipticis scaberrimis rugosis serratis enervibus, racemis paniculatis secundis. Willd. sp. pl. 3. p. 2057.*
 Icon. *Dill. elth. t. 305. f. 392.*
 In barren dry fields and woods : New York to Carolina. $\frac{1}{4}$. Sept.—Nov. *v. v. v. s. in Herb. Banks.*
- altissima.* 9. *S. caule erecto hirto, foliis lanceolatis inferioribus pro-funde serratis scaberrimis rugosis, paniculis secundis. Willd. sp. pl. 3. p. 2057.*
 Icon. *Mart. cent. 14.*
- vulgaris.* α . *S. caule 5-pedali piloso, serraturis profundis inaequalibus, racemis divaricatis. Ait. kew. 3. p. 212.*
 β . *S. caule 3-pedali villosi, serraturis profundis subaequa-libus. Ait. l. c.*
- recurvata.* γ . *S. caule 5-pedali villosissimo, serraturis magnis, racemis vix divergentibus. Ait. l. c. Mill. dict.*
 In hedges and fields ; common. $\frac{1}{4}$. Aug.—Oct. *v. v. ; v. s. in Herb. Banks. et Lambert.* It is a very variable species, and scarcely two individuals look alike.

10. *S. caule erecto hirto, foliis lanceolatis scaberrimis rugosis inferioribus adpresso-serratis, racemis paniculatis secundis patentissimis.* Willd. sp. pl. 3. p. 2058. Mill. dict.
S. altissima ϵ . Ait. kew. 3. p. 213.
 Icon. Dill. elth. t. 308. f. 396.
 In dry barren soil: Canada to Virginia. ♀. Aug.—Oct. v. v.; v. s. in Herb. Banks. et Lambert.
11. *S. caule erecto villoso, foliis lanceolatis molliuscillis ser-ratis enervibus, racemis paniculatis secundis.* Herb. Banks. mss.
S. altissima β . Ait. kew. 3. p. 213.
S. pilosa. Mill. dict.
 In fields and woods; frequent. 24. Aug.—Oct. v. v.; v. s. in Herb. Banks. et Lambert. From eighteen inches to three feet high.
12. *S. caule erecte hirto sulcate, foliis oblongis utrinque attenuatis acuminatis, supra glabris, subtus rugosis scabria, medio adpresso-serratis, racemis secundis.*—Willd. sp. pl. 3. p. 2059.
 In old fields and about fences: Pennsylvania to Virginia. ♀. Aug.—Oct. v. v.; v. s. in Herb. Lambert.
13. *S. caule erecto tereti hirto, foliis oblongis acutis subam-plicauli-sessilibus glabris marginae scabris rarer ob-solete dentatis, panicula nuda secunda pyramidata, ramis reflexis, pedunculus glabris.*
 In pine-barrens of Georgia. Enslen. ♀. Aug. Sept. v. s. in Herb. Enslen. About two feet high; the leaves decrease toward the beginning of the panicle, which consists of lively yellow and very small flowers.
14. *S. caule erecto tomentoso, foliis caulinis lanceolatis hispidis integerrimis, radicalibus subcuneiformibus ser-ratis, racemis paniculatis secundis.* Willd. sp. pl. 3. p. 2059.
 In sandy and barren fields; common: Canada to Carolina. ♀. Aug.—Oct. v. v.; v. s. in Herb. Banks. The whole plant has a gray aspect, and is about a foot, or sometimes two, high.
15. *S. caule erecto glabro, foliis ellipticis serratis glabris, radicalibus oblongo-spathulatis, racemis paniculatis se-cundis patentibus, pedunculus pubescentibus.* Willd. sp. pl. 3. p. 2059.
 In shady woods, in fertile soil: New York to Virginia. ♀. Sept. Oct. v. v. Two feet high.

- ulmifolia.* 16. *S. caule erecto glabro striato, foliis ellipticis profunde serratis acuminatis subtus villosis, radicalibus obovatis, racemis paniculatis secundis, pedunculis villosis, ligulis abbreviatis.* —*Willd. sp. pl. 3. p. 2060.*
In swamps and shady woods: New York to Virginia.
v. v.
- arguta.* 17. *S. caule erecto glabro, foliis glabris argute inaequaliter serratis, caulinis ellipticis, radicalibus ovato-oblongis, racemis paniculatis secundis, ligulis elongatis.* —*Willd. sp. pl. 3. p. 2060.*
In woods and meadows: Canada to Virginia.
v. v.; v. s. in Herb. Banks.
- junccea.* 18. *S. caule erecto glabro, foliis lanceolatis glabris margine scabris, inferioribus serratis, racemis paniculatis secundis.* —*Willd. sp. pl. 3. p. 2060.*
In sandy fields and woods: New Jersey to Carolina.
v. Aug.—Oct. v. v.; v. s. in Herb. Banks.
- elliptica.* 19. *S. caule erecto glabro, foliis ellipticis laevibus serratis, racemis paniculatis secundis, ligulis mediocribus.* —*Willd. sp. pl. 3. p. 2060.*
S. latissimifolia. *Mill. dict.*
In shady woods, among rocks: New York to Virginia.
v. Aug.—Oct. v. v.; v. s. in Herb. Banks.
- asperata.* 20. *S. caule paniculato-corymboso, racemis suberectis, floribus adscendentibus, foliis lanceolatis serratis scabris.* —*Herb. Banks. mss.*
In Canada. *v. s. in Herb. Banks.*
- recurvata.* 21. *S. caule erecto pubescente, foliis lanceolatis serratis margine scabris, racemis elongatis secundis recurvatis paniculatis.* —*Willd. enum. 889.*
In shady woods: Pennsylvania and Virginia.
v. v.
- semperfiriens.* 22. *S. caule erecto glabro, foliis linear-lanceolatis subcarnosis laevibus integerrimis margine scabris, racemis paniculatis secundis, pedunculis pilosis.* —*Willd. sp. pl. 3. p. 2060.*
Icon. *Pluk. alm. t. 235. f. 5.* *Moris. hist. 3. s. 7. t. 23. f. 15.*
In swamps and on the banks of rivers: Canada to Pennsylvania.
v. Sept.—Nov. v. v.; v. s. in Herb. Banks. et Lambert.
- virgata.* 23. *S. caule glabro simplicissimo, foliis subcuneato-lanceolatis obtusis integerrimis glaberrimis appressis, supo-*

rioribus sensim minoribus, ramis paniculæ elongatis apice racemifloris, pedunculis glabris secundis.—*Mich. fl. amer. 2. p. 117.*

In shady wet woods of Lower Carolina and Georgia.
fl. Aug.—Oct. v. v. About two foot high; extremely smooth and slender.

24. *S. caule erecto pubescente, foliis linear-lanceolatis integrerrimis glabris margine scabris, racemis paniculatis secundis.* *Willd. sp. pl. 3. p. 2061.*

Icon. Pluk. alm. 116. f. 6.

In dry sunny situations, on fertile woodlands: Canada to Carolina; principally throughout the Allegany mountains. *fl. Aug. Oct.—v. v.; v. s. in Herb. Banks.* This is most generally and principally known among the inhabitants by the name of *Golden-rod*, and used as a wholesome tea. The flowers, gathered when fully expanded, and carefully dried, give a most agreeable substitute for tea, which for some time has been an article of exportation to China, where it fetches a high price.

25. *S. caule erecto tereti aspero, foliis arcte sessilibus reflexis linear-lanceolatis mucronatis subtus subcarinatis margine asperis, panicula racemis recurvatis.* —*Mich. fl. amer. 2. p. 117.*

In open swamps of Virginia and Carolina. *fl. Aug. Sept. v. v.*

*** *Racemis erectis.*

26. *S. glabra, suffruticosa; foliis lanceolatis obtusis enervibus, pauciflosculosa.*
panicula composita multiflora, fasciculis erectis, calyculis angusto-oblongis 5-floris, radio unico. —*Mich. fl. amer. 2. p. 116.*

In the sand-barrens of Virginia and Carolina. *fl. Aug.—Oct. v. v.*

27. *S. caule foliisque ellipticis pilosis, inferioribus serratis, ramis foliolosis, racemis erectis, foliolis calycinis obtusis.* *Willd. sp. pl. 3. p. 2061.*

Icon. Pluk. alm. t. 114. f. 3.

In woods and on dry hills: Canada to Carolina. *fl. Aug.—Oct. v. v.; v. s. in Herb. Banks.* It is easily distinguished from the rest, by the short and close racemes and white rays.

28. *S. caule erecto villoso, foliis ellipticis scabriusculis petiolatis, racemis erectis, ligulis elongatis.* *Willd. sp. pl. 3. p. 2062.*

odora.

retrorsa.

bicolor.

petiolaris.

- In dry sandy soil : New Jersey to Carolina. 4. Sept.—Nov. v. v.; v. s. in *Herb. Banks.*
- stricta.* 29. S. caule erecto glabro, foliis caulinis lanceolatis integerimis glabris margine scabris, radicalibus serratis, racemis paniculatis erectis, pedunculis glabris. *Willd. sp. pl. 3. p. 2062.*
- In sandy woods : New Jersey to Carolina. 4: Aug.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* About two feet high, very smooth.
- lanceolata.* 30. S. caule hirto angulato ramosissimo, foliis lanceolato-linearibus integerimis erectis scabriusculis: nervis subtus pilosis, axillis nudis, corymbis terminalibus fastigiatis, ramulis capitatis, ligulis altitudine disci.—*Willd. sp. pl. 3. p. 2062.*
- Chrysocoma graminifolia.* Sp. pl. 1178.
- In fields and meadows, on the side of woods and rivers: Canada to Pennsylvania. 4. Sept.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* From four to five feet high; flowers small.
- tenuifolia.* 31. S. caule scabro angulato corymboso-ramoso, foliis angustissime-linearibus patulis obsolete 3-nervibus scabris, axillis foliosis, corymbis terminalibus fastigiatis, ramulis capitatis, ligulis disco vix altioribus.
S. lanceolata β. minor. *Mich. fl. amer. 2. p. 116.*
- In pine-barrens: New Jersey to Carolina. 4. Sept. Oct. v. v. Not above a foot high; leaves very small and narrow.
- Sarothra.* 32. S. caule angulato scabro nudo, superne corymboso, ramis summitate paucifloris, foliis linearibus stricte-appressis obsolete 3-nervibus utrinque scabris, axillis nudis, ligulis disco duplo longioribus.
On the plains of the Missouri. *M. Lewis.* 4. Sept. v. s. in *Herb. Lewis.* About a span high; resembling *Hypericum Sarothra* in general habit very much. This and the two preceding have a great affinity to one another; but I consider them good and permanent species, as there are no intermediate varieties, which might lead to the suspicion that all belong to one genuine species.
- cæsia.* 33. S. caule lœvi erecto, foliis lanceolatis glabris, racemis erectis, ligulis mediocribus. *Willd. sp. pl. 3. p. 2062.*
- Icon. *Dill. edit. t. 307. f. 395.*

- In woods and low fields : New England to Carolina. Ʌ.
Aug.—Oct. v. v.
34. *S. caule glabro paniculato, foliis lanceolatis serratis glabris margine scabris, rami apice racemosis, ligulis elongatis.* —*Willd. enum. 891.* *livida.*
- In sandy fields and woods : New York to Virginia. Ʌ.
Sept. Oct. v. v.
35. *S. caule erecto hispido scabro, foliis lanceolatis scabris integerrimis, radicalibus serratis, racemis erectis, ligulis mediocribus.* —*Willd. sp. pl. 3. p. 2063.* *hispida.*
- In grassy fields and woods : New Jersey to Virginia. Ʌ.
Oct. Nov. v. v. Resembles No. 33.
36. *S. caule paniculato hirsuto, foliis lanceolatis utrinque scabris, caulinis serratis, rameis integerrimis, racemis erectis, ligulis elongatis.* —*Willd. enum. 891.* *hirta.*
In North America. *Willdenow.* Ʌ. +.
37. *S. caule ramoso pubescente, foliis lanceolatis utrinque scabris attenuatis 3-nervibus integerrimis, racemis erectis, ligulis elongatis.* —*Willd. enum. 891.* *lithospermifolia.*
In sandy barren woods : New Jersey to Carolina. Ʌ.
Aug.—Oct. v. v.
38. *S. caule erecto laevi, foliis lanceolatis carnosis integerrimis undique laevis, racemis paniculatis erectis, pedunculis squamosis villosis, ligulis elongatis.* —*Willd. sp. pl. 3. p. 2063.* *laevigata.*
In salt-marshes : Canada to Virginia. Ʌ. Sept.—Nov.
v. v.; v. s. in *Herb. Banks.* A tall robust species,
resembling the following one very much, and probably nothing more than a variety.
39. *S. caule obliquo glabro, foliis lanceolatis subcarnosis integerrimis undique laevis, racemis paniculatis erectis, pedunculis squamosis glabris, ligulis elongatis.* —*Willd. sp. pl. 3. p. 2063.* *mexicana.*
Icon. *Dodart. act. 4. t. 219.*
On the banks of rivers and ditches, near salt-water. Ʌ.
July—Sept. v. v.; v. s. in *Herb. Banks. et Lambert.*
Tall; flowers large,
40. *S. caule erecto subpubescente, foliis linear-lanceolatis membranaceis basi attenuatis glabris margine scabris, infimis subserratis, racemis erectis, ligulis elongatis.* —*Willd. sp. pl. 3. p. 2064.* *viminea.*
S. integriflora. Mill. dict.
On the banks of rivers and ditches ; Canada to Virginia.

- erecta.* 41. S. caule subviloso, foliis lanceolatis venosis glabris integrerrimis subpetiolatis. *Herb. Banks. mss.*
In North America. ¼. v. s. in *Herb. Banks.*
- macrophylla.* 42. S. foliis inferioribus ovatis acuminatis attenuatis inaequilater argute serratis glabris, caulinis lanceolatis utrinque attenuatis subeessilibus serratis, racemis axillaribus pedunculatis foliosis, longitudine foliorum, calycibus oblongis turgidis multifloris, ligulis subelongatis.—*Herb. Banks. mss.*
In Canada. ¼. v. s. in *Herb. Banks.* About three feet high ; it is intermediate between this genus and *Aster.*
- glomerata.* 43. S. caule humili simplicissimo, foliis glabris oblongo-lanceolatis serratis, racemo simplici e glomerulis axillaribus : superioribus capitato-congestis, calycibus turgidis multifloris.—*Mich. fl. amer. 2. p. 117.*
In the mountains of Carolina. *Michaux.* ¼. +.
- flexicauſis.* 44. S. caule flexuoso glabro angulato, foliis ovatis acuminatis serratis glabris, racemis erectis axillaribus, ligulis mediocribus.—*Willd. sp. pl. 3. p. 2064.*
Icon. *Pluk. alm. t. 235. f. 3.* Rob. ic. 22.
- latifolia.* β. S. *Pluk. alm. t. 235. f. 4.*
In woods and fields ; common : Canada to Carolina. ¼.
Aug.—Oct. v. v. ; v. s. in *Herb. Banks.* This is the most common species.
- axillaris.* 45. S. caule glabro tereti stricto, foliis lanceolatis serratis glabris, racemis axillaribus subglobosis erectis, ligulis elongatis.—*Herb. Banks. mss.*
In shady woods : Canada to Virginia. ¼. Aug.—Oct. v. v. ; v. s. in *Herb. Banks.*
- Virgaurea.* 46. S. caule erecto tereti superne ramoso et pubescente, foliis caulinis lanceolatis utrinque attenuatis serratis, inferioribus ellipticis pilosiusculis, racemis erectis, ligulis elongatis. *Willd. sp. pl. 3. p. 2065.*
Icon. *Engl. bot. 301.*
In abractor. *Colmaster.* ¼. Aug.—Oct. v. s. in *Herb. Dickson.*
- multiradiata.* 47. S. caule villosiusculo, foliis sessilibus lanceolatis glabris ciliatis, inferioribus apice serratis, racemo terminali

erecto, ligulis elongatis numerosis. *Willd. sp. pl. 3.*
p. 2066.

In Labrador and Hudson's Bay. 4. Aug.—Oct. v. s.
in Herb. Dickson. et Banks.

48. S. caule simplici erecto glabro, foliis lanceolatis serratis
glabris basi attenuatis elongatis, racemo erecto. *Herb.*
Banks. mss. • *humilis.*

In North America. 4. v. s. *in Herb. Banks.*

49. S. caule piloso tereti, foliis lanceolatis subtus pilosius-
culis, racemis erectis, ligulis elongatis. *Herb. Banks.* elata.

In North America. 4. v. s. *in Herb. Banks.*

50. S. caule foliisque ovato-oblongis pilosis scabris, caulinis
integerrimis, infimis serratis, ramis floriferis panicu-
latis, racemis compactis, ligulis elongatis. *Willd. sp.*
pl. 3. p. 2067. *rigida.*

Icon. *Herm. parad. 243.*

In the tract of mountains : New Jersey to Carolina. 4.
Aug.—Oct. v. v.; v. s. *in Herb. Banks. et Lambert.*
Flowers large ; leaves very rough.

61. S. foliis radicalibus ovato-oblongis petiolatis, caule nu- noveboracen-
diusculo ramoso fastigiatu. *Willd. sp. pl. 3. p. 2067.* sis.

In sandy fields and woods. 4. Sept. Oct. v. v. Leaves
rough ; flowers large.

636. ASTER. *Gen. pl. 1291.*

* *Foliis integerrimis.*

1. A. foliis linear-lanceolatis 3-nervibus punctatis acutis *hyssopifolius.*
margini scabris, ramulis corymboso-fastigiatis coarcta-
tis, radio sub-5-floro, calycibus imbricatis disco duplo
brevioribus. *Willd. sp. pl. 3. p. 2022.*

In sandy fields and woods : New Jersey to Carolina. 4.
Aug.—Oct. v. v.; v. s. *in Herb. Banks. et Lambert.*
From a foot to two high ; flowers in a close and flat-
tened corymb ; ray white, with a tinge of purple ;
disk yellow.

2. A. foliis linear-lanceolatis obsolete trinervibus integerri-
mis obtusis margini scabris, ramulis corymboso-fasti-
giatis, floribus sessilibus aggregatis, radio 5-floro, ca-
lycibus disco brevioribus imbricatis, squamis oblongis
obtusis adpressis apice subreflexis.—*Willd. sp. pl. 3.*
p. 2024.

Conyza linifolia. Sp. pl. 1205.

*solidaginoi-
des.*

Icon. *Pluk. alm. t. 79. f. 2.*

In dry swamps and on the borders of woods : Pennsylvania to Carolina. 24. Aug.—Oct. v. v.; v. s. in *Herb. Banks. et Lambert.* About two feet high ; the scales of the calyx white, with green tips ; rays long, white.

- cordifolius.* 3. A. foliis cuneato-ovatatis acutis enervibus utrinque scabris tortuoso-patulis, corymbo composito subfastigato, calycibus cylindricis imbricatis basi bibracteatis, squamis oblongis acutiusculis adpressis, radio 5-floro.—*Mich. fl. amer. 2. p. 109.*
- Conyza bifoliata. Walt. fl. car. 204.*
In Lower Carolina and Georgia. 24. Aug.—Oct. v. s. in *Herb. Enslen.* About a foot high ; flowers the size of the preceding, rays white.
- ledifolius.* 4. A. foliis linear-lanceolatis basi attenuatis enervibus scabriusculis margine revolutis, ramis corymbosis, ramulis filiformibus unifloris nudiusculis, calycibus laxis imbricatis disco duplo brevioribus, foliolis acutissimis, radio sub-20-floro.
- A. nemoralis. *Ait. kew. 3. p. 198.*
- β . A. caule simplicissimo unifloro.
A. uniflorus. *Mich. fl. amer. 2. p. 110?*
In sphagnum bogs and about mountain-lakes : Canada to New Jersey. 24. Sept. Oct. v. v.; v. s. in *Herb. Banks. et Lambert.* About a foot high ; flowers middle-sized ; disk yellowish white ; rays lilac or reddish-purple, twice the length of the disk. Sometimes the leaves have a small indenture on each side.
- rigidus.* 5. A. foliis linearibus mucronatis subcarinatis rigidis margine scabro-ciliatis, caulinis reflexis, rameis patentibus subulatis, caule erecto superne subramoso, ramulis 1-floris corymbosis, calycibus imbricatis disco duplo brevioribus, squamis carinatis obtusiusculis, radiis sub-10-floris reflexis.—*Willd. sp. pl. 3. p. 2032. Mich. fl. amer. 2. p. 118.*
- A. nemoralis. *Willd. sp. pl. 3. p. 2021. excl. syn. Aiton.*
A. linariifolius. *Herb. Banks. et Lambert.*
Icon. *Pluk. alm. t. 14. f. 7.*
In sandy fields and pine-barrens : New Jersey to Carolina. 24. Aug.—Oct. v. v.; v. s. in *Herb. Banks. et Lambert.* About a foot or less high ; flowers nearly the size of the preceding, rays a beautiful pale violet-blue, disk yellow.

6. A. foliis crebris linearibus macronatis enervibus impunctatis cerinatis scabris rigidis, rameis recurvatis, caule subdecumbente, ramis fastigiatis 1-floris, calycibus imbricatis longitudine disci.—*Willd. sp. pl. 3. p. 2024.*
Mich. fl. amer. 2. p. 110.
- A. squarrosum. *Herb. Banks. mss.* *linariifolius.*
In dry, sandy and gravelly fields, and among rocks : Pennsylvania to Carolina. ♀. Aug.—Nov. v. v.; v. s. in *Herb. Banks.* Resembles the preceding, but is more branching and of lower growth; the stems are rough, and generally of a purple colour; leaves more crowded, smaller, and more reflex; flowers of the same colour, but smaller, and not raised on almost naked peduncles.
7. A. foliis angusto-linearibus enervibus impunctatis glabris *graminifolius.* erectis, ramulis terminalibus nudiusculis 1-floris, calycibus laxis discum subæquantibus.—*Herb. Banks.* *mss.*
At Hudson's Bay. ♀. Aug. Sept. v. s. in *Herb. Banks.* Flowers pale-purple; not above six inches high.
8. A. foliis linearibus enervibus punctatis scabris reflexo-patentibus, ramis corymboso-fastigiatis foliosis, calycibus imbricatis brevibus, radiis disco subæqualibus.—*Willd. sp. pl. 3. p. 2024.*
- In dry shady woods and exsiccated swamps : Pennsylvania to Virginia. ♀. Sept.—Nov. v. v. About eighteen inches or two feet high; flowers the size of a large daisy; rays white or faintly purple.
9. A. foliis lineari-lanceolatis albo-villosis, caule ramoso villosi, ramis recurvato-patulis, ramulis subsecundis unifloris, calycibus oblongis laxis imbricatis, squamis lanceolatis mucronatis.—*Willd. sp. pl. 3. p. 2025.*
- A. villosus. *Mich. fl. amer. 2. p. 113.* *pilosus.*
In natural meadows of the Illinois country. ♀. Aug.—Oct. +.
10. A. glaberrimus, parviflorus; caule paniculato, ramis multifloris, foliis lineari-subulatis, calycibus cylindraceis, ligulis radii minutis. *Mich. fl. amer. 2. p. 111.* In salt-marshes : Pennsylvania to Carolina. ♀. Aug.—Nov. +.
11. A. foliis lineari-lanceolatis utrinque attenuatis acuminatis, caule pubescente paniculato erecto, ramis paucifloris, calycibus imbricatis, squamis linearibus acutis adpresso-sus. *Willd. sp. pl. 3. p. 2025.* *subulatus.* *foliolosus.*

Icon. *Dill. elth. t. 35. f. 39?*

In dry barren fields and on road sides: Canada to Carolina. $\frac{1}{4}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.* Flowers small, white; scarcely a distinct species from the following. There is no specimen of it in the Banksian Herbarium.

- tenuifolius.* 12. A. foliis linear-lanceolatis utrinque attenuatis margine hispidis, caule glabro ramoso erecto, ramulis unifloris, calycibus imbricatis, squamis oblongis acutis laxis. *Willd. sp. pl. 3. p. 2026.*

Icon. *Pluk. alm. 78. f. 5.*

On road sides and barren fields. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Flowers the same as the preceding, which I consider only a variety of the present species.

- dumosus.* 13. A. foliis linearibus glabris, ramulorum brevissimis, ramis paniculatis, calycibus cylindraceis arcte imbricatis. *Willd. sp. pl. 3. p. 2026.*

- violaceus.* a. A. radio pallide violaceo, caule pubescente. *Ait. kew. 3. p. 202.*

- albus.* β . A. radio albo, caule glabro. *Ait. l. c.*
Icon. *Herm. parad. 95. Pluk. alm. t. 78. f. 6.*

In dry barren fields and sand-barrens: New England to Carolina. $\frac{1}{4}$. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Flowers small, rays white, disk yellow.

- ericoides.* 14. A. foliis linearibus glaberrimis, ramulorum subulatis approximatis, caulinis elongatis, calycibus subsquarrosis, foliolis acutis, caule glabro. *Willd. sp. pl. 3. p. 2027.*

In barren grounds and on road sides; common: Canada to Carolina. $\frac{1}{4}$. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Flowers the size and colour of the preceding.

- multiflorus.* 15. A. foliis linearibus glabriusculis, caule ramosissimo diffuso pubescente, ramulis secundis, calycibus imbricatis, squamis oblongis squarrosis acutis. *Willd. sp. pl. 3. p. 2027.*

Icon. *Dill. elth. t. 36. f. 40.*

In dry fields, and on road sides: Canada to Carolina. $\frac{1}{4}$. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Probably only a variety of the preceding.

- ciliatus.* 16. A. foliis ciliatis, caulinis linear-lanceolatis nervosis, ramis brevissimis lanceolatis 3-nervibus, caule ramoso

- pubescente, ramis paniculatis, calycibus imbricatis,
squamis spathulatis squarrosis. *Willd. sp. pl. 3.*
p. 2027.
- In North America. *Muhlenberg.* ♀. +. Resembles
the preceding one.
17. A. cano-pubescent; foliis linearibus, panicula corym-
bosa ramosissima foliosa, calycibus imbricatis acutissi-
mis disco longioribus.
- On the banks of the Missouri. ♀. Aug.—Nov. v. s.
Flowers the size of a daisy, rays pale purple.
18. A. foliis remotis linearibus amplexicaulibus erectis gla-
berimis margine scabris, pedunculis fere nudis, caly-
cibus squarrosis basi foliis 2. suffultis.—*Willd. sp.*
pl. 3. p. 2033.
- In marshes and swamps of Lower Carolina. ♀. Aug.
—Nov. v. s. in *Herb. Banks. et Lambert.* Flowers
large, rays blue, disk yellow.
19. A. glaberrimus; foliis subulato-linearibus subcarnosis
subreflexis, caule tenui ramosissimo, ramis ramulisque
patulis setaceis 1-floris, squamis pedunculorum divar-
icatis subulatis, calycibus imbricatis, squamis adpres-
sis acutis.—*Mich. fl. amer. 2. p. 112.*
- In salt-marshes: New York to Carolina. ♀. Sept.—
Nov. v. v. Resembles the preceding one; flowers
smaller; rays pale purple or white, disk brownish-
yellow.
20. A. humilis; radice repente, caulinibus debilibus simplici-
bus, foliis longe lanceolatis glabriusculis, radicalibus
spathulatis, corymbo terminali incompte rarifloro, ca-
lycis squamis lineari-oblongis obtusiusculis. *Mich. fl.*
amer. 2. p. 113.
- In woods of North Carolina, in the county of Burke.
Michaux. +.
21. A. foliis creberrimis linearibus obtusis reflexis margine
hispidis, caule ramoso diffuso glabro, ramulis uni-
floris, calycibus imbricatis, squamis lineari-spathula-
tis obtusis.—*Willd. sp. pl. 3. p. 2028.* *Mich. fl. a-*
mer. 2. p. 112.
- In dry barren soil in Lower Carolina. ♀. Aug.—Nov.
v. s. Resembles the following species; flowers bright
blue.
22. A. foliis creberrimis ovatis acuminatis reflexis margine
hispidis, caule ramoso hirsuto, ramulis unifloris, caly-
- canescens.*
- paludosus.*
- sparsiflorus.*
- surculosus.*
- coridifolius.*
- squarrosus.*

SYNGENESIA SUPERPLURA. Aster.

- cibus imbricatis, squamis lanceari-cuneatis acutis squarroso.* Willd. sp. pl. 3. p. 2029. Watt. fl. cor. 209.
In pine-barrens of Lower Carolina. 4. Aug.—Nov. v. v.; v. s. in *Herb. Lambert*. Has a striking resemblance to *A. reflexus* from the Cape of Good Hope, and is a very ornamental plant; flowers blue and large.
- concolor.* 23. *A. foliis oblongo-lanceolatis utrinque cano-pubescentibus, caule simplicissimo erecto pubescente, racemo terminali, calycibus imbricatis, squamis lanceolatis sericeis adpresso.* Willd. sp. pl. 3. p. 2029.
In sandy pine and oak woods near the sea-coast: New Jersey to Florida. 4. Aug.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert*. About a foot high; flowers, both ray and disk, of an agreeable reddish-purple. This is one of the handsomest of the American *Asters*, and highly deserves to be introduced as an ornamental plant.
- sericeus.* 24. *A. foliis oblongo-lanceolatis sessilibus sericeo-tomentosis, caule gracili decumbente laxe ramoso, ramis ramulisve subunifloris, calycibus foliacis subsquarroso.* —Willd. sp. pl. 3. p. 2016.
A. argenteus. Mich. fl. amer. 2. p. 111.
Icon. Vent. hort. cels. t. 33.
On the banks of rivers, among rocks, in the Illinois country, and on the Mississippi and Missouri. 4. Sept. Oct. v. s. in *Herb. Lambert*. A beautiful species; leaves resemble those of *Protea argentea*; flowers large, rays a fine purple, disk pale-yellow.
- reticulatus.* 25. *A. undique cano-tomentosus; foliis lanceolato-oblongis utrinque acutis sessilibus margine revolutis, subtus reticulato-venosis triplinervibus, caule superne ramoso, ramis apice corymboso-racemifloris, pedunculis subaphyllis, calycibus imbricatis laxiusculis, squamis acutissimis.*
In dry swamps of Carolina and Georgia. 4. Aug.—Oct. v. v. About three feet high; flowers middle-sized, rays and florets white.
- cornifolius.* 26. *A. glaber; foliis oblongo-ovatis acuminatis brevi-petiolatis margine scabris, caule glabro, panicula pauciflora, ramis bifloris, calycibus subimbricatis.* —Willd. sp. pl. 3. p. 2039.
In Pennsylvania. Muhlenberg. 4. +.
- humilis.* 27. *A. foliis subrhomboideis ovali-lanceolatis utrinque acu-*

minutis subpetiolatis glabris margine hispidis, corymbo divergenti-dichotomo nudiusculo panicifloro, calycibus laxis imbricatis, radiis 8-floris.—*Willd. sp. pl. 3. p. 2038.*

A. infirmus. *Mich. fl. amer. 2. p. 109.*

A. divaricatus. *Willd. sp. pl. 3. p. 2044. secundum specimen Gronov. et Banks.*

Icon. Willd. hort. berol. 67. Pluk. alm. t. 79. f. 1.

In shady and rocky places: Canada to Carolina. 4.

Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Gronov.*
Not above a foot high; flowers clear white, and large in proportion to the plant.

28. *A. foliis lanceolatis basi attenuatis acuminatis margine amygdalinus. scabris, caule simplici apice corymboso-fastigato, calycibus laxis imbricatis, squamis lanceolatis obtusis.*—*Lam. encycl. 1. p. 305.*

A. umbellatus. *Ait. kew. 3. p. 199.*

On the banks of rivers and in swamps: Canada to Carolina. 4. Sept.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* Rays large, white.

salicifolius.

29. *A. foliis lineari-lanceolatis subintegerrimis glabris, caule glabro apice paniculato, calycibus laxis imbricatis, squamis acutis apice patulis.*—*Willd. sp. pl. 3. p. 2030.*

A. praetextus. *Lam. encycl. suppl. 1. p. 493.*

Icon. Reb. ic. 307.

In low grounds, on the side of ditches: New York to Virginia. 4. Aug.—Oct. *v. v.; v. s. in Herb. Banks. et Lambert.* From four to six feet high; flowers middle-sized, reddish-blue.

æstivus.

30. *A. foliis lanceolatis subamplexicaulibus apice attenuatis margine scabris, caule a basi ramoso erecto hispido, ramulis pilosis, calycinis squamis laxis linearibus acutis æqualibus.*—*Willd. sp. pl. 3. p. 2030.*

In dry swamps and copes: New York and Pennsylvania.

4. July—Sept. *v. v.; v. s. in Herb. Banks. et Lambert.* Not above two feet high; flowers resembling the preceding, rays blue.

31. *A. foliis lineari-lanceolatis pilosis amplexicaulibus basi novæ anglæ. auriculatis, caule simpliciusculo piloso stricto, floribus sessilibus terminalibus confertis, calycinis squamis laxis coloratis lanceolatis disco longioribus.*—*Willd. sp. pl. 3. p. 2032.*

Icon. Herm. parad. 98.

On the banks of rivers and borders of meadows: Canada to Virginia. $\frac{4}{4}$. Sept.—Nov. *v. v.; v. s. in Herb. Banks. et Lambert.* A highly ornamental species; in rich moist soil it will grow to the height of ten feet: flowers large, rays blue or purple, and almost every shade between red and blue.

- cyanus.* 32. A. foliis linear-lanceolatis amplexicaulibus lœvigatis, caule virgato-paniculato glaberrimo, ramis racemifloris, calycinis squamis laxis lanceolatis discum æquantiibus, interioribus apice coloratis.—*Hoffm. phytogr.* 1. p. 71. t. B. f. 1.
 A. rubricaulis. *Lam. encycl.* 1. p. 305.
 A. spurius. *Willd. sp. pl.* 3. p. 2032.
 A. Novæ anglie. β . *Ait. kew.* 3. p. 201.
 In old meadows and dry swamps: New England to Carolina. $\frac{4}{4}$. Sept.—Nov. *v. v.; v. s. in Herb. Lambert.* From three to four feet high; flowers large, in great abundance, of various tints of blue and purple; the handsomest of the genus.
- carolinianus.* 33. A. foliis oblongis utrinque attenuatis sessilibus, caule subscandente ramosissimo, ramulis pubescentibus summitate paucifloris, calycinis squamis lanceolatis squarrosis.—*Willd. sp. pl.* 3. p. 2017. *Walt. fl. car.* 208.
 In shady moist hedges and swamps: Carolina and Georgia. $\frac{4}{4}$. $\frac{1}{2}$. Aug. Sept. *v. v.* From six to fifteen feet high; flowers large; rays purple or flesh-coloured, disk yellowish-purple.
- grandiflorus.* 34. A. foliis linearibus rigidis acutiusculis subamplexicaulibus, rameis reflexis, margine ciliato-hispidis, caule ramoso hirsuto, ramis unifloris, calycinis squamis squarrosis linear-lanceolatis. *Willd. sp. pl.* 3. p. 2033.
 Icon. *Mill. ic.* 282. *Dill. elth.* t. 36. f. 41. *Mart. cent.* 19. *Hoffm. phyt.* 1. p. 65. t. A. f. 1.
 In dry sandy woods: Virginia to Carolina. $\frac{4}{4}$. Sept.—Nov. *v. v.; v. s. in Herb. Banks.* About two feet high; leaves small; flowers large, rays purple and blue, disk yellow.
- phlogifolius.* 35. A. foliis lanceolatis cordatis amplexicaulibus subtus pubescentibus, margine scabris, caule simplicissimo pubescente, panicula terminali laxa rariflora, calycinis squamis laxis imbricatis lanceolatis.—*Willd. sp. pl.* 3. p. 2034.
 A. amplexicaulis. *Mich. fl. amer.* 2. p. 114.
 In shady moist places: New Jersey to Virginia. $\frac{4}{4}$.

Aug.—Nov. v. v. From eighteen inches to a foot high; flowers middle-sized, rays violet.

36. A. foliis oblongo-lanceolatis ciliatis cordatis amplexicaulis utrinque scabris pilosis, caule ramoso hirto, ramis patentibus elongatis paucifloris microphyllis, calycinis squamis imbricatis lanceolatis patulis.—*Willd. sp. pl. 3. p. 2034.*

A. diversifolius. *Mich. fl. amer. 2. p. 113?*

In hedges, old drying up swamps, and sometimes among rocks: New England to Carolina. ♀. Sept.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* From a foot to two high; flowers middle-sized, rays purple or blue, disk yellow.

** *Folii cordatis ovatisque, serratis.*

37. A. foliis oblongis cordatis amplexicaulis integerrimis pilosis subundulatis, inferioribus ovatis cordatis sub-serratis petiolatis, petiolis alatis, caule paniculato hispido, ramulis secundis foliosis unifloris. *Willd. sp. pl. 3. p. 2035.*

Icon. *Hoffm. phyt. 1. t. C. f. 1.* *Herm. parad. 96.*

In dry woods and old fields: New England to Carolina. ♀. Sept.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* Flowers smaller than the preceding; rays pale violet.

38. A. foliis oblongo-lanceolatis acuminatis sessilibus medio serratis, radicalibus oblongis cordato-sagittatis serratis petiolatis, caule ramoso glabro, squamis calycinis laxis imbricatis lanceolatis.—*Willd. sp. pl. 3. p. 2035.*

In North America. *Wedemeyer.* ♀. +. Flowers blue, the size of the following species.

39. A. foliis ovato-lanceolatis subserratis petiolatis glabris, radicalibus ovato-cordatis serratis scabris petiolatis, petiolis nudis, caule ramosissimo glabro, ramulis pilosis, calycibus laxis subimbricatis. *Willd. sp. pl. 3. p. 2035.*

Icon. *Corn. canad. 65.* *Moris. hist. 3. s. 7. t. 22. f. 34.*
In meadows, hedges, and on the borders of woods: Canada to Virginia. ♀. Aug.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* From two to four feet high; flowers rather small, but in great abundance, changing from white to blue in the ray, and from yellow to purple or brown in the disk, which gives the whole plant a beautiful variegated appearance.

- cordifolius.* 40. A. foliis cordatis subtus pilosis argute serratis petiolatis, petiolis alatis, caule paniculato glabriusculo, panicula divaricata, calycibus laxis subimbricatis.—*Willd. sp. pl. 3. p. 2036.*
In shady woods, throughout the mountains : Canada to Florida. Ʌ. Sept.—Nov. v. v.; v. s. in *Herb. Banks.* Flowers small, white, or pale purple.
- corymbosus.* 41. A. foliis ovatis argute serratis acuminatis glabriusculis, inferioribus cordatis petiolatis, petiolis nudis, caule glabro superne corymbo-so-fastigato, ramis pilosis, calycibus oblongis imbricatis, squamis obtusis arcte adpressis.—*Willd. sp. pl. 3. p. 2036.*
In shady woods : Canada to Florida. Ʌ. Aug.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* A foot or two high ; flowers white, larger than the preceding.
- macrophyllus.* 42. A. foliis ovatis petiolatis serratis scabris, summis ovato-cordatis sessilibus, inferioribus cordatis petiolatis, petiolis submarginatis, caule ramoso diffuso, calycibus cylindricis arcte imbricatis, squamis oblongis acutis.—*Willd. sp. pl. 3. p. 2037.*
In shady woods about rocks ; Canada to Virginia. Ʌ. Sept.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* A foot or two high ; flowers above the middle size, rays white, and sometimes blue.
- heterophyllus.* 43. A. foliis glabris, caulinis ovatis subcordatis acuminatis profunde serratis apice integerrimis, ramorum ovato-oblongis subserratis, ramulorum lanceolatis minutissime reflexo-patentibus, caule paniculato glabro, calycibus arcte imbricatis. *Willd. enum. 882.*
In North America. *Willdenow.* Ʌ. +.
- *** *Foliis lanceolatis ovatisque, inferioribus serratis.*
- amplexicaulis.* 44. A. foliis ovato-oblongis acutis amplexicaulibus cordatis serratis glabris, caule paniculato glabro, ramulis 1-2-floris, calycinis squamis lanceolatis arcte imbricatis.—*Willd. sp. pl. 3. p. 2046.*
A. pensylvanicus. Lam. encycl. suppl. 1. p. 498.
On the borders of woods, in sandy soil : New Jersey to Virginia. Ʌ. Sept.—Nov. v. v. Flowers middle-sized, blue.
- prenanthoides.* 45. A. foliis amplexicaulibus spatulato-lanceolatis acuminatis medio serratis basi cordatis, ramulis pilosis, calycinis squamis lanceolatis squarrosis.—*Willd. sp. pl. 3. p. 2046.*

- In Pennsylvania. *Muhlenberg.* ♀. +. Flowers blue.
46. A. foliis amplexicaulibus lanceolatis, inferioribus subseratis glabris, ramulorum linearibus squarrosis, calycibus squarrosis disco brevioribus, squamis linearicuneatis.—*Willd. enum.* 884. *adulterinus.*
- In North America. *Willdenow.* ♀. +. Rays violet; disk yellowish-brown.
47. A. foliis subamplexicaulibus lato-lanceolatis subserratis laevibus, caule ramosissimo glabro, ramulis multifloris, calycinis squamis lanceolatis laxis discum subæquantibus.—*Willd. sp. pl.* 3. p. 2046. *lævigatus.*
- In swamps and wet woods: Pennsylvania to Virginia. ♀. Sept.—Nov. v. v.; v. s. in *Herb. Lambert.* Flowers large, pale rose- or flesh-coloured, with a tinge of purple.
48. A. foliis subamplexicaulibus lato-lanceolatis subserratis glabris, radicalibus medio serratis, caule ramosissimo glabro, calycinis squamis lanceolatis laxis disco brevioribus. *Willd. sp. pl.* 3. p. 2045. *versicolor.*
- In old fields and on the borders of woods: New Jersey to Carolina. ♀. Aug.—Oct. v. v.; v. s. in *Herb. Lambert.* A beautiful species; flowers large and in great abundance, disk yellow, rays white, changing to a deep violet; so that at the same time there are flowers of different colours on the same plant; which has a very pleasing effect.
49. A. foliis subamplexicaulibus, superioribus lanceolatis acuminatis integerrimis, inferioribus lanceolatis basi angustatis serratis, ramulis virgatis, calycibus disco brevioribus laxis, caule glabro. *Willd. sp. pl.* 3. p. 2045. *mutabilis.*
- Icon. *Pluk. alm. t.* 326. f. 1. *Herm. lugdb.* 67.
- In old fields and woods: Pennsylvania to Virginia. ♀. Aug.—Oct. v. v.; v. s. in *Herb. Lambert.* Flowers middle-sized; rays deep purple, disk yellow, changing to purple.
50. A. foliis subamplexicaulibus remotis oblongis integerrimis lucidis, radicalibus subserratis, ramis simplicibus unifloris, calycibus imbricatis, foliolis subcuneiformibus acutis apice incrassatis, caule glabro angulato.—*Willd. sp. pl.* 3. p. 2044. *lævis.*
- In woods and on the sides of ponds and ditches: New York to Virginia. ♀. Sept.—Nov. v. v. Rays blueish-purple.

- concinus.* 51. A. foliis lanceolatis subamplexicaulibus inferioribus subserratis glabris, caule simplici apice paniculato, calycibus arcte imbricatis. *Willd. enum.* 884.
 In fields and woods : New York and Pennsylvania. 4. Sept.—Nov. v. v.; v. s. in *Herb. Lambert.* Leaves resembling those of *Phlox maculata*; rays blueish-purple.
- puniceus.* 52. A. foliis amplexicaulibus lanceolatis serratis scabriusculis, ramis paniculatis, calycibus laxis discum superantibus, foliolis linear-lanceolatis subequalibus, caule hispido. *Willd. sp. pl.* 3. p. 2040.
 Icon. *Herm. lugdb.* 651.
- purpureus.* a. A. septempedalis, caulibus saturate purpureis. *Ait. kew.* 3. p. 208.
 A. amoenus. *Lam. encycl.* 1. p. 306.
- rufescens.* b. A. octopedalis, caulibus e. viridi-rufescensibus. *Ait. l. c.*
 A. hispidus. *Lam. encycl.* 1. p. 307.
 On the banks of rivers and ditches, particularly near salt-water : Canada to Carolina, and in the range of mountains, about lakes. 4. Sept.—Nov. v. v.; v. s. in *Herb. Banks, et Lambert.* From three to ten feet high; flowers large, purple or blue.
- floribundus.* 53. A. foliis subamplexicaulibus lanceolatis, inferioribus serratis, caule glabro, ramis corymbosis, ramulis multifloris pilosis, calycinis squamis laxis lanceolatis imbricatis. *Willd. sp. pl.* 3. p. 2048.
 In North America. *Willdenow.* 4. +. Resembles the following species.
- novi belgii.* 54. A. foliis subamplexicaulibus lanceolatis glabris margine scabris, inferioribus subserratis, ramis subdivisis, calycibus laxe-imbricatis, foliolis linear-lanceolatis, caule tereti glabro. *Willd. sp. pl.* 3. p. 2048.
 Icon. *Herm. lugdb.* 69.
 In hedges and old fields : New England to Virginia. 4. Aug.—Oct. v. v.; v. s. in *Herb. Lambert.* Flowers middle-sized, pale purple.
- bellidiflorus.* 55. A. foliis amplexicaulibus angusto-lanceolatis supra scabris, inferioribus subserratis, caule ramosissimo, calycis squamis lanceolatis patentibus. *Willd. enum.* 886.
 In North America. *Willdenow.* 4. +. Ray pale red, disk yellow, changing to brown.
- spectabilis.* 56. A. foliis lanceolatis scabriusculis subamplexicaulibus, inferioribus medio serratis, ramis corymbosis, foliolis

calycinis laxis foliaceis subcuneiformibus acutiusculis squarrosis. Willd. sp. pl. 3. p. 2048.

In low meadows, on the sides of woods : Pennsylvania to Virginia. 24. Aug.—Nov. v. v.; v. s. in *Herb. Lambert.* About two feet high ; flowers large, blue.

57. A. foliis oblongo-lanceolatis acuminatis sessilibus glabris margine scabris, inferioribus serratis, ramis corymbosis glabris, ramulis unifloris, calycinis squamis lanceolatis acuminatis patentibus.—Willd. sp. pl. 3. p. 2049.

In low grounds and on the banks of ditches : New York to Virginia. 24. Sept.—Nov. v. v.; v. s. in *Herb. Lambert.* About three feet high ; flowers large, blue.

58. A. foliis sessilibus serratis glabris spathulato-lanceolatis basi attenuatis et margine utroque latere deflexis, ramis divaricatis, calycibus laxis, foliolis lanceolato-linearibus subæqualibus glabris.—Willd. sp. pl. 3. p. 2049.

In low overflowed grounds : New York to Virginia ; rare. 24. Oct. Nov. v. v. Flowers below the middle size ; rays pale blue.

59. A. foliis subamplexicaulibus oblongo-lanceolatis acuminatis serratis glabris, caule pyramidato-ramoso, ramis axillaribus racemifloris folio vix longioribus, pedunculis tomentosis nudis, calycibus laxis subæqualibus disco brevioribus.—*Herb. Banks. mss.*

In Canada. 24. Oct. Nov. v. s. in *Herb. Banks.* Flowers above the middle size ; rays pale purple.

60. A. foliis lato-lanceolatis inferne attenuatis integris superne inæqualiter serratis longissime acuminatis, caule simplici flexuoso anguloso, panicula corymbosa divaricato-dichotoma, calycinis foliolis laxis linearibus disco brevioribus.—*Mich. fl. amer.* 2. p. 109.

α. A. caule altiore, panicula multiflora foliosa.

A. latifolius. *Herb. Banks. et Lambert.*

β. A. caule pumilo, corymbo paucifloro nudo vix foliis altiore.

In Canada and on the Allegany mountains, in rocky shady situations. β. On the highest mountains of Virginia and Carolina. 24. Aug.—Oct. v. v. About a foot or more high ; flowers middle-sized ; rays white.

61. A. foliis oblongis 3-nervibus basi angustatis acutis, superioribus sessilibus subintegerrimis, inferioribus petiolatis serratis, caule simplici apice corymboso, calyci-

serotinus,

tardiflorus.

blandus,

acuminatus.

elatior.

pumilus.

conyzoides.

bus cylindricis squarrosis, radiis 5. brevissimis.—
Willd. sp. pl. 3. p. 2043.

A. marylandicus. *Mich. fl. amer. 2. p. 108.*

Conyzza asteroides. *Sp. pl. 1206.*

In fields and woods: Pennsylvania to Carolina. 4. Aug.—Oct. v. v. About a foot high; flowers small; rays only five, white.

peregrinus. 62. **A. foliis sessilibus remotis oblongo-lanceolatis sensim acutis glabris, caule erecto subsimplici glabro superne hirto summitate 1—3-floro, calycinis squamis lanceo-lato-linearibus villosis acutissimis laxis longitudine disci, radiis numerosis.** —*Herb. Banks. mss.*

On the north-west coast: Unalashka. *D. Nelson.* 4. v. s. in *Herb. Banks.* Flowers large, violet.

Radula. 63. **A. foliis lanceolatis serratis acuminatis rugosis scaberrimis, caule erecto angulato simplici, corymbo terminali, calycibus imbricatis, foliolis lanceolatis obtusiusculis sub-squarrosis.** —*Willd. sp. pl. 3. p. 2044.*

In Nova Scotia and on the high mountains of New York and Pennsylvania. 4. Sept.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* Flowers middle size; rays short, white.

strictus. 64. **A. foliis sessilibus angusto-lanceolatis serratis scabris, caule superne uno aut paucifloro, calycinis squamis imbricatis adpressis oblongis acutis discum subsequantibus.** —*Herb. Banks. mss.*

A. biflorus. *Mich. fl. amer. 2. p. 114?*

In Labrador, at Hudson's Bay, and on high mountains in Pennsylvania. 4. Sept. Oct. v. v.; v. s. in *Herb. Banks.* From four inches to a span high; flowers middle-sized; rays pale violet, disk brownish-yellow.

Tradescanti. 65. **A. foliis lanceolatis serratis sessilibus glabris, ramis virgatis, calycibus imbricatis, caule tereti glabro.** *Willd. sp. pl. 3. p. 2047.*

A. vimineus. *Lam. encycl. 1. p. 306.*

In hedges and dry swamps; frequent: Canada to Virginia. 4. Aug.—Oct. v. v.; v. s. in *Herb. Lambert.* Three or four feet high; flowers very small; rays white, and sometimes pale purple.

recurvatus. 66. **A. foliis sessilibus angusto-lanceolatis basi attenuatis, inferioribus medio serratis, caule ramoso glabro recurvato, calycinis squamis laxis imbricatis linear-lanceolatis subæqualibus.** —*Willd. sp. pl. 3. p. 2047.*

A. salicifolius. *Lam. encycl. 1. p. 306.*

- In fields and on road sides : New England to Pennsylvania. ♀. Sept.—Nov. v. v. Resembles the preceding ; flowers pale blue.
67. *A. foliis linear-lanceolatis acuminatis margine scabris, infimis subserratis, caule paniculato, ramulis unifloris, calycibus laxe imbricatis, foliolis lanceolatis.* *Willd. enum. 886.* *eminens.*
- In North America. *Willdenow.* ♀. Sept.—Nov. v. s. in *Herb. Lambert.* Flowers of middle size ; rays pale lilac, disk yellow, changing to red.
68. *A. foliis linear-lanceolatis acuminatis margine scabris, infimis subserratis, caulinis subreflexis, rameis patentissimis, caule laxo apice paniculato, calycibus imbricatis, foliolis lanceolatis acutis apice reflexis.* *Willd. enum. 886.* *laxus.*
- In low sandy fields : New Jersey to Virginia. ♀. Sept.—Nov. v. v. Rays white ; disk yellow.
69. *A. foliis lanceolatis acuminatis margine scabris, caulinis apice serratis, rameis integerrimis, caule glaberrimo apice paniculato, calycibus laxe imbricatis, foliolis linear-subulatis.* *Willd. enum. 887.* *simplex.*
- In North America. *Willdenow.* ♀. +. Rays white, disk yellow.
70. *A. foliis linearibus integerrimis, radicalibus oblongis subserratis, caule ramosissimo pubescente, calycibus laxe imbricatis.* *Willd. enum. 888.* *polyphyllus.*
- In North America. *Willdenow.* ♀. +. Rays white, disk yellow, changing to red or brown.
71. *A. foliis lanceolato-linearibus sessilibus glabris, infimis subserratis, ramulorum lanceolatis, caule paniculato glabro, ramis virgatis, calycibus imbricatis.* *Willd. sp. pl. 3. p. 2050.* *juncens.*
- In swamps and ditches : Pennsylvania to Virginia. ♀. Aug.—Oct. v. v. From four to six feet high ; flowers flesh-coloured.
72. *A. foliis linear-lanceolatis sessilibus integerrimis glabris, infimis lanceolatis subserratis, caule ramoso diffuso glabriuscule, calycibus imbricatis, foliolis lanceolatis subpatulis.* —*Willd. sp. pl. 3. p. 2050.* *lanceolatus.*
- In North America. *Willdenow.* ♀. Aug.—Nov. +. Resembles the preceding ; flowers smaller, rays white, changing to a pale violet.
73. *A. foliis linearibus acuminatis integerrimis, inferioribus dracunculoides.*

- lineari-lanceolatis subserratis, ramis corymbosis, calycibus imbricatis, caule glabriusculo. *Willd. sp. pl. 3. p. 2050.*
- A. artemisiiflora. Lam. encycl. suppl. 1. p. 500.*
In low grounds and on sides of ditches: New Jersey to Carolina. ♀. Sept.—Nov. v. v.; v. s. in *Herb. Lambert.* About four feet or less high; flowers about half the size of No. 71, rays white.
- fragilis.* 74. *A. foliis linearibus acuminatis integerrimis, radicalibus oblongis serratis, ranis corymbo-paniculatis, calycibus imbricatis squamis adpressis, caule glabriusculo. Willd. sp. pl. 3. p. 2051.*
In North America. *Muhlenberg.* ♀. v. s. in *Herb. Lambert.* About two feet high; flowers white, smaller than the preceding. This and the three preceding species are very nearly allied to one another, so much so that it is difficult to find sufficient cararacters to distinguish them, though their general appearance and the size of the flowers separate them at first sight.
- miser.* 75. *A. foliis sessilibus lanceolatis serratis glabris, calycibus imbricatis, foliolis acutis, disco radii æquali, caule villosiusculo. Willd. sp. pl. 3. p. 2051.*
In old barren fields: Canada and New England. ♀. Aug.—Oct. v. v.; v. s. in *Herb. Lambert.*
- divergens.* 76. *A. foliis elliptico-lanceolatis serratis glabris, caulinis lineari-lanceolatis elongatis, ramis patentibus, calycibus imbricatis, caule pubescente. Willd. sp. pl. 3. p. 2052.*
In old fields and barren woods: New York to Carolina. ♀. Sept.—Nov. v. v.; v. s. in *Herb. Lambert.* From three to five feet high; flowers small; rays white, disk reddish-brown.
- diffusus.* 77. *A. foliis elliptico-lanceolatis serratis glabris proportionatis, ramis patentibus, calycibus imbricatis, caule pubescente. Willd. sp. pl. 3. p. 2052.*
In fields and hedges; frequent: Canada to Carolina. ♀. Sept.—Nov. v. v.; v. s. in *Herb. Lambert.* Flowers white, small.
- pendulus.* 78. *A. foliis elliptico-lanceolatis serratis glabris, ramulorum remotiunculis, ramis divaricatissimis pendulis, caule pubescente. Willd. sp. pl. 3. p. 2052.*
In old fields; common. ♀. Oct. Nov. v. v.; v. s. in *Herb. Lambert.* Resembles the preceding; but the

stem forms a loose panicle with pendulous branches; the disk turns brown.

637. DONIA. Ait. kew. ed. 2. t. 4. p. 82.

1. D. herbacea; foliis oblongis amplexicaulibus serratis, calycinis squamis apice filiformibus revoluto-squarrosa.

In open prairies, on the banks of the Missouri. *M. Lewis.* 2⁴. Aug. Sept. v. s. in *Herb. Lewis.*; v. v. cult. Flowers yellow, resembling those of *Inula*. The whole plant is viscous, and has a strong resiniferous or balsamic scent.

Caulis erectus, teres, albidus, corymboso-ramosus. *Rami* alterni, angulati, apice uni-aut triflori. *Folia* alterna, basi dilatata, amplexicaulia, oblonga, acuta aut obtusa, serrata, glabra, utrinque squamulis punctiformibus resiniferis obsita. *Flores* 1—3. in summitate ramulorum, corymbosi, flavi, ante explicationem copiose resiniferi. *Calyx* hemisphaericus, arcte imbricatus: *Squamis* apice filiformibus, revolutis et quasi caput Medusæ referentibus. *Flosculi* radii linearilanceolatae, acutæ. *Semina* oblongo-obovata. *Pappus*: aristis 2—4. deciduis. *Receptaculum* planum, nudum, favulosum.

It approaches near to *Aster glutinosus* Cav. ic. 2. p. 53. t. 168. which is the *Donia glutinosa* Ait. kew. ed. 2. t. 4. p. 82. which I distinguish by the following diagnosis: *Donia glutinosa*: frutescens; foliis oblongo-oblanceolatis sessilibus serratis, calycinis squamis linearibus erectis.

638. BCEBERA. Willd. sp. pl. 3. p. 2125.

1. B. caule paniculato, foliis oppositis subbipinnatis glabris acutis.—*Willd. sp. pl. 3. p. 2125.*

Tagetes papposa. *Mich. fl. amer.* 2. p. 132.

Tagetes pumila. *Hort. pisan.*

Dyssodia glandulosa. *Cav. demonstr. bot. p. 202.*

On the overflowed banks of the Missouri and Mississippi. ○. Aug. Sept. v. s. Flowers small, golden-yellow.

squarrosa.

chrysanthemooides.

639. ACTINELLA. Pers. syn. 2. p. 469.

Actinea. Juss. in annal. mus. 2. p. 425.

- lanata.* 1. A. unquie lanato-tomentosa ; foliis linearibus superne pinnatifidis, pedunculis elongatis unifloris, radiis bidentatis, seminibus glabris 5-gonis.
On the high lands of the Kooskoosky. M. Lewis. 4. June, July. v. s. in Herb. Lewis. Flowers orange-yellow. It resembles in habit Jussieu's *Actinea*, in Annal. du mus. 2. t. 61. f. 2.
Planta omnibus partibus tomento albo lanato tecta. Casulis ramosus, teres. Rami alterni, superne subdivisi. Ramuli uniflori. Folia caulina alterna, linearia, superne dilatato-pinnatifida, dentata ; ramea linearia, integra. Pedunculi terminales, elongati, superne in-crassati. Flores aurantiaci, magnitudine Tagetidæ erectæ. Calyx oblongus, simplex, polyphyllus : foliola 12—14. linear-lanceolata, acuta. Corollulae radii 12—14. oblongæ, bidentatae, nervosæ : disci tubulosæ, concolores. Pappus : paleis 4—6. scariosis, albidis, acutis, interdum laceris. Semina prismatico-oblonga, 5-gona.

640. HELENIUM. Gen. pl. 1299.

- autumnale.* 1. H. foliis lanceolatis serratis subdecurrentibus, caule superne corymboso, corollulis disci 5-fidis : radii planis reflexis.—Willd. sp. pl. 3. p. 2120.
Icon. Pluk. amalth. t. 372. f. 4. Corn. canad. 63.
pubescens. β. H. foliis pubescentibus. Willd. sp. pl. 3. p. 2121.
On the banks of rivers, ponds, and ditches : Canada to Carolina. 4. Oct. Nov. v. v. About two feet high ; flowers bright yellow.
canaliculatum. 2. H. foliis lanceolatis serratis subdecurrentibus, caulis simplicibus, corollulis disci 5-fidis : radii canaliculatis. Lamarck in journ. hist. nat. 213. t. 35.
quadridentatum. 3. H. foliis lato-decurrentibus, inferioribus subpinnatifidis, superioribus lanceolatis integerimis glabris, corollulis disci 4-dentatis.—Willd. sp. pl. 3. p. 2121.
Rudbeckia alata. Jacq. ic. rar. t. 593.
Icon. Labillard. in art. soc. hist. nat. par. 1. t. 4.
On the banks of the Mississippi. 4. July, Aug. v. v. From three to four feet high ; flowers smaller than the preceding.

641. BOLTONIA. *Gen. pl.* 1309.

1. *B. foliis integerrimis, floribus longe pedunculatis, semi-nibus ovalibus glabris submuticis.*—*Willd. sp. pl.* 3. p. 2162. *asteroides.*

Matricaria asteroides. *Linn. mant.* 116.

Chrysanthemum carolinianum. *Walt. fl. car.* 204.

Icon. L'Herit. sert. angl. t. 25. ined.

On the banks of ponds and swamps: Carolina and Illinois. ♀. Aug.—Oct. v. s. Rays flesh-coloured; disk yellow.

2. *B. foliis inferioribus serratis, floribus breviter pedunculatis, seminibus obcordatis conspicue alatis pubescensibus, aristis pappi duabus ipsorum longitudine.*—*Willd. sp. pl.* 3. p. 2163. *glaucifolia.*

Icon. L'Herit. sert. angl. t. 26. ined.

On the banks of rivers and ponds. Pennsylvania to Virginia. ♀. July, Aug. v. v. Resembles the preceding very much.

642. SIEGESBECKIA. *Gen. pl.* 1320.

1. *S. foliis sessilibus ovatis dentatis, floribus disci tridentatis triandris.* *Willd. sp. pl.* 3. p. 2220. *flosculosa.*

Icon. L'Herit. stirp. t. 19.

On the north-west coast. *M. Lewis.* ♂. July, Aug. v. s. in *Herb. Lewis.* Flowers yellow.

643. PHÆTHUSA. *Gen. pl.* 1319.

1. *P. foliis oppositis ovatis acuminate serratis triplinervibus, corymbo terminali brachiato.*—*Willd. sp. pl.* 3. p. 2221. *americana.*

Icon. Pluk. mant. t. 342.

In North America. ♀. +. I strongly suspect this to be the same with *Verbesina Siegesbeckia*, although Michaux declares it to be different.

644. ECLIPTA. *Gen. pl.* 1316.

1. *E. erecta, dichotoma, strigosa; foliis lanceolatis basi attenuatis rarer serratis, pedunculis geminis elongatis, calycinis foliolis ovatis acuminate.*—*Willd. sp. pl.* 3. p. 2217. *erecta.*

Verbesina alba. *Sp. pl.* 1272.

Cotula alba. *Syst. nat.* 2. p. 564.
Icon. Dill. elth. t. 113. f. 137. *Pluk. alm.* t. 109. f. 1.

Moris. hist. 3. s. 6. t. 13. f. 16.
 In dry gravelly soil : Virginia to Florida. ☽. June, July.
 v. v. Flowers small, white.

procumbens. 2. E. procumbente-assurgens ; foliis longo-lanceolatis in ferne angustatis rariter subserratis, pedunculis longiusculis, calycinis foliolis acute-lanceolatis, flosculis 4-fidis.—*Mich. fl. amer.* 2. p. 129.

In Lower Carolina. ☽. July, Aug. v. s. Flowers small, white.

brachypoda. 3. E. divaricato-prostrata ; foliis lanceolatis subserratis, pedunculis solitariis gemini-que brevibus, calycinis foliolis ovali-lanceolatis, flosculis 5-fidis.—*Mich. fl. amer.* 2. p. 130.

Amellus carolinianus. *Walt. fl. car.* 213.

In low sandy fields : Carolina. ☽. July, Aug. v. v.

645. ANTHEMIS. *Gen. pl.* 1312.

arvensis. 1. A. receptaculis conicis, paleis lanceolatis, seminibus coronato-marginatis, foliis bipinnatis laciniis lanceolato-linearibus. *Willd. sp. pl.* 3. p. 2180.

Icon. Engl. bot. 602.

In waste grounds and on road sides : Pennsylvania to Virginia. ♂. ☽. Aug. Sept. v. v. Rays white, disk yellow.

repens. 2. A. caule repente, foliis ovali-lanceolatis subintegris, pedunculis terminalibus unifloris longissimis, calycibus subæqualibus 10—12-phylis.—*Walt. fl. car.* 211.

Spilanthes repens. *Mich. fl. amer.* 2. p. 131.

On overflowed banks of rivers : South Carolina. ☽. July—Sept. v. v. Flowers yellow.

646. ACHILLEA. *Gen. pl.* 1313.

Ptarmica. 1. A. foliis linearibus acuminatis æqualiter argute serratis glabris. *Willd. sp. pl.* 3. p. 2191.

Icon. Fl. dan. 643. *Engl. bot.* 757.

In open dry swamps : Canada and New York. ♀. Aug. Sept. v. v. Flowers white.

asplenifolia. 2. A. foliis radicalibus bipinnatifidis, caulinis incisis, laciniis ovatis serrato-mucronatis obtusis.—*Vent. hort. cels* 95.

In North America. *Bosc.* ♀. +. Flowers rose-coloured.

3. *A. foliis bipinnatifidis pilosis laciniis linearibus dentatis mucronatis, caulibus sulcatis.* *Smith fl. brit.* 2. p. 908.
Willd. sp. pl. 3. p. 2208.
Icon. Fl. dan. 737. *Engl. bot.* 758.
 In fields and on road sides; common. ♀. June—Aug.
 v. v. Probably introduced from Europe. Flowers white or rose-coloured.
4. *A. foliis bipinnatifidis villosis, pinnis confertissimis, laciniis linear-lanceolatis integerrimis, corymbo composto.* *Willd. sp. pl.* 3. p. 2209.
Icon. Bot. mag. 498. *Gmel. it.* 1. t. 25. f. 2.
 On the banks of the Kooskoosky. *M. Lewis.* ♀. June.
 v. s. in *Herb. Lewis.* Flowers yellow.

647. TETRAGONOTHECA. *L'Herit. stirp.* p. 177.

1. *T:* hirsutissima; foliis oppositis amplexicaulibus spatulato-ovatis, summis ovatis acuminatis dentatis tripli-nervibus.—*Willd. sp. pl.* 3. p. 2116.
Polymnia Tetragonotheca. *Syst. veg.* 658.
Icon. Dill. elth. t. 283. f. 305.
 In fertile soil, on the borders of woods and along hedges:
 Virginia to Florida. ♀. July—Sept. v. v. From four to six feet high; flowers large, yellow.

648. HELIOPSIS. *Pers. syn.* 2. p. 473.

1. *H. foliis oppositis ovatis serratis triplinervibus.* *Pers.*
syn. 2. p. 473.
Buphtalmum helianthoides. *Willd. sp. pl.* 3. p. 2236.
Helianthus latus. *Sp. pl.* 1278.
Rudbeckia oppositifolia. *Sp. pl.* 1280.
Silphium solidaginoides. *Sp. pl.* 1302.
 On the banks of rivers, and in rocky shady places: Pennsylvania to Carolina. ♀. Aug.—Oct. v. v. A tall plant, resembling a species of *Helianthus*.

649. BUFTHALMUM. *Gen. pl.* 1231.

1. *B. foliis oppositis cuneato-lanceolatis carnosis incanis, petiolis bidentatis, caule fruticoso.* —*Willd. sp. pl.* 3. p. 2229.
Icon. Dill. elth. t. 28. f. 4. *Pluk alm.* t. 115. f. 4.
Catesb. fl. car. 1. t. 93.

On the sea-coast: Virginia to Florida. $\frac{1}{2}$. Aug. Sept.
v. v. A shrub about five feet high.

- angustifoli-
um.* 2. *B. foliis alternis linearibus superne latioribus integerri-
mis glabris, calycinis foliolis acute-lanceolatis.*—*Herb.
Banks. mss.*

In Georgia and Florida. *Bartram.* $\frac{1}{4}$. *v. s. in Herb.
Banks.*

- sagittatum.* 3. *B. tomentosum; foliis radicalibus longissime petiolatis
oblongis sagittatis integerimis subtrinervibus, caulinis
oblongis in petiolum attenuatis, caule sub trifloro, ca-
lycinis foliolis exterioribus disco longioribus.*

On dry barren hills, in the Rocky-mountains. *M. Lewis.*
 $\frac{1}{4}$. June, July. *v. s. in Herb. Lewis.* Flowers large,
yellow. The natives eat the young stems as they
spring up, raw.

650. AMELLUS. Gen. pl. 1315.

- villosus.* 1. *A. villosissimus; foliis sessilibus oblongis acuminatis in-
tegerimis, floribus axillaribus brevi-petiolatis, radiis
integris, paleis setaceis.*

On the Missouri. $\frac{1}{4}$. *v. s.* Rays yellow.

- spinulosus.* 2. *A. canescens; foliis bipinnatifidis inciso-dentatis, lacinia-
bus linearibus rigido-mucronatis, floribus lateralibus et ter-
minalibus congestis, radiis bidentatis, paleis setaceis.*

In open prairies on the Missouri. *M. Lewis.* $\frac{1}{4}$. Aug.
Sept. *v. s. in Herb. Lewis.* Rays yellow.

*Tota planta rigida, scabra, cano-viridescens. Caulis ra-
mosissimus. Rami angulosi. Ramuli laterales breves,
uniflori. Folia alterna, bipinnatifida, rigida, lacinia-
bus linearibus, spinula terminatis, inferioribus inciso-den-
tatis. Flores laterales solitarii et terminales congesti,
subcorymbosi, lutei. Calyx imbricatus: squamis ex-
terioribus brevioribus, acutis, hirsutis; interioribus li-
nearibus, scariosis. Corollæ radii lineari-lanceolatæ,
bidentatae. Receptaculum: Paleis brevibus, subulatis.*

Both species are an intermediate link between *Aster* and
Inula. They approach the nearest to *Amellus*; but the
receptacle is not, properly speaking, paleaceous, but
only setaceous.

651. VERBESINA. Gen. pl. 1317.

- virginica.* 1. *V. caule angusto alato, foliis alternis lato-lanceolatis sub-
serratis, corymbo composito, calycibus oblongis pu-
bescensibus.*—*Willd. sp. pl. 3. p. 2222.*

- In shady woods on the mountains: Pennsylvania to Carolina. \mathcal{U} . July—Sept. *v. v.* Rays from three to four, white.
2. *V. caule alato, foliis oppositis ovato-lanceolatis utrinque acuminatis acute serratis, panicula brachiata, ramulis summitate fasciculifloris.* — *Willd. sp. pl. 3. p. 2224.* *Siegesbeckia.*
Siegesbeckia occidentalis. Sp. pl. 1269.
- In shady woods: Virginia to Carolina. \mathcal{U} . July—Sept. *v. v.* Rays from one to three, yellow. It has a strong resemblance to *Phæthusa*.
3. *V. caule alato, foliis alternis lanceolatis serratis, panicula corymbosa laxa foliosa, calycibus laxis patulis, disco subgloboso.* — *Mich. fl. amer. 2. p. 134.* *Coreopsis.*
Coreopsis alternifolia. Willd. sp. pl. 3. p. 2257.
- α . *V. radiata aut flosculosa luteiflora. Mich. l. c.*
 Icon. *Jacq. hort. vind. t. 110. Pluk. alm. t. 159. f. 3.*
- β . *V. semper flosculosa albiflora. Mich. l. c.*
Athanasia paniculata. Walt. fl. car. 201.
- In the mountains of Virginia and Carolina. β . On the Carolina coast. \mathcal{U} . July—Sept. *v. v.* From three to seven feet high; flowers yellow. The white variety I have only seen in the Walterian Herbarium, and I strongly suspect it to be a very distinct species.
4. *V. caule alato, foliis alternis lato-lanceolatis acutis leviter dentatis subtus albido-villosis, supra aspero-pubescentibus, pedunculis unifloris aggregatis.* — *Mich. fl. amer. 2. p. 135.* *helianthoides.*
- In the western parts of the Allegany mountains: Tennessee and Illinois. \mathcal{U} . Aug. Sept. *v. s.* Flowers like *Helianthus*.

652. ZINNIA. *Gen. pl. 1304.*

1. *Z. floribus pedunculatis, foliis oppositis ovato-lanceolatis subpetiolatis.* — *Willd. sp. pl. 3. p. 2139.* *multiploflora.*
 Icon. *Linn. dec. t. 12. Jacq. obs. 2. t. 40. Bot. mag. 149.*
- On the banks of the Mississippi. \odot . July, Aug. *v. v.* Rays yellow, orange, and sometimes brick-red.

III. FRUSTRANEA.

653. BIDENS. *Gen. pl.* 1267.

- cernua.* 1. B. floribus subradiatis cernuis, calyce exteriore flore longiore, foliis lanceolatis subconnatis dentatis. *Willd. sp. pl.* 3. p. 1716.
Icon. *Fl. dan.* 841. *Curtis fl. lond.* 3. t. 55. *Pet. hort. brit.* t. 20. f. 6.
- minima.* β. B. foliis lanceolatis sessilibus, floribus seminibusque erectis. *Sp. pl.* 1165.
Icon. *Fl. dan.* 312. *Dill. in Raii syn.* t. 7. f. 2.
- Coreopsis.* γ. B. foliis lanceolatis serratis oppositis amplexicaulibus. *Sp. pl.* 1281.
Icon. *Barrel. ic.* t. 1209. *Laess. fl. pruss.* t. 11.
About ponds, ditches and springs : Canada to Pennsylvania. ☽. Aug. Sept. The flowers of this and all the following species are yellow, and the most of them are either without or with rays.
- chrysanthemoidea.* 2. B. floribus radiatis cernuis, radio calyci subæquali triplo longiore, foliis oblongis utrinque attenuatis dentatis basi connatis. *Willd. sp. pl.* 3. p. 1717. *Mich. fl. amer.* 2. p. 136.
Coreopsis flammula. *Herb. Banks. mss.*
Coreopsis perfoliata. *Walt. fl. car.* 215.
In overflowed places and about ponds : New England to Carolina. ☽. Aug.—Oct. v. v. Flowers large, bright yellow. The awns of the seeds are by two, three, or four; not always by two, as Michaux asserts.
- frondosa.* 3. B. floribus discoideis, calyce exteriore flore sexduplo longiore, foliolis basi ciliatis, foliis inferioribus pinnatis, superioribus ternatis lanceolatis serratis. *Willd. sp. pl.* 3. p. 1718.
Icon. *Moris. hist.* 3. s. 6. t. 5. f. 21.
In shady fertile woods and fields : Pennsylvania to Carolina. ☽. July—Oct. v. v.
- connata.* 4. B. floribus discoideis, calyce exteriore flore triplo longiore, foliis caulinis ternatis, foliolis lateralibus connatis, floralibus oblongo-lanceolatis. *Willd. sp. pl.* 3. p. 1718.
In fields and woods; frequent : Canada to Carolina. ☽. July—Oct. v. v.
- pilosa.* 5. B. floribus discoideis, calyce exteriore longitudine interioris, foliis inferioribus pinnatis, superioribus ter-

natis, foliolis oblongis, terminali lanceolato reliquis duplo longiore. *Willd. sp. pl. 3. p. 1720.*

Icon. *Dill. elth. t. 43. f. 51.*

In old fields and cultivated grounds: Pennsylvania to Carolina. ☽. July—Oct. v. v. A common weed.

6. B. floribus subradiatis, calyce exteriore longitudine interioris, foliis bipinnatis, foliolis lanceolatis pinnatifidis. *Willd. sp. pl. 3. p. 1721.* *bipinnata.*

Icon. *Herm. parad. t. 123. Moris. hist. 3. s. 6. t. 7. f. 23.*

A common weed in all old fields. ☽. July—Oct. v. v.

654. COREOPSIS. *Gen. pl. 1325.*

* *Foliis oppositis, indivisis.*

1. C. foliis sessilibus lanceolato-linearibus integerrimis ciliatis, pedunculis elongatis nudis, seminibus orbiculatis scabris alatis apice bidentatis emarginatis.—*Willd. sp. pl. 3. p. 2256.* *lanceolata.*

Icon. *Dill. elth. t. 48. f. 56. Mart. cent. 26.*

β. C. caule foliisque canescenti-villosos. *Mich. fl. amer. 2. p. 137.* *villosa.*

C. crassifolia. *Willd. sp. pl. 3. p. 2256.*

In mountainous situations: Virginia and Carolina. ♀. Aug.—Oct. v. v. Flowers deep yellow; rays broad with four or five teeth.

2. C. glabra; foliis petiolatis lanceolato-ovatis sensim acuminatis argute serratis, pedunculis axillaribus terminalibusque dichotome-corymbosis. *arguta.*

In Carolina. *P. Miller. 4. v. s. in Herb. Banks.* Flowers middle size. This and all the rest are of a bright yellow colour.

3. C. foliis ovatis acuminatis serratis petiolatis triplinervibus decurrentibus. *alata.*

In Virginia. *Bartram. ♂. v. s. in Herb. Banks.*

4. C. foliis ovatis acuminatis crenato-dentatis, dentibus mucronatis, petiolis brevibus, radiis intégris, seminibus cuneato-oblongis apteris apice nudis.—*Willd. sp. pl. 3. p. 2257. Mich. fl. amer. 2. p. 137.* *latifolia.*

On the high mountains of Virginia and Carolina. ♀. July—Sept. v. v. A tall growing species; flowers rather small.

** *Foliis oppositis, divisis.*

- aristata.* 5. C. pubescens ; foliis quinato-pinnatis serratis, radiis integris lato-ovalibus, seminibus cuneato-obovatis bibrastatis, aristis divaricatis.—*Willd. sp. pl. 3. p. 2253.*
C. aristosa. Mich. fl. amer. 2. p. 140.
 In South Carolina and Illinois. ♀. Aug. Sept. v. s.
 Flowers large ; rays very broad.
- trichosperma.* 6. C. glabella, dichotoma ; foliis subquinato-pinnatis lanceolatis serratis, calycis exterioris foliolis (8) spatulatis ciliato-serratis, radiis integris, seminibus cuneatis sub-4-dentatis.—*Willd. sp. pl. 3. p. 2252. Mich. fl. amer. 2. p. 139.*
 In cedar-swamps : New Jersey and Carolina. ♂. Aug.—Oct. v. v. Flowers small ; resembles *C. coronata*.
- auriculata.* 7. C. pubescens ; foliis subsessilibus ovali-lanceolatis integrerrimis, inferioribus ternatis, calyce exteriore profunde partito, radiis 4-dentatis, seminibus subrotundo-obovatis apice etnarginato-bidentatis.—*Willd. sp. pl. 3. p. 2256.*
 Icon. *Plak. alm. t. 83. f. 5. ♂ t. 242. f. 4.*
 On the high mountains of Virginia and Carolina. ♀. Aug.—Oct. v. v.
- tripleris.* 8. C. glabra ; foliis petiolatis lanceolatis integrerrimis, radicalibus pinnatis, caulinis ternatis, radiis integris, seminibus obovatis apice nudis.—*Willd. sp. pl. 3. p. 2253.*
 Icon. *Moris. hist. 3. s. 6. t. 3. f. 44.*
 On high mountains : Virginia to Carolina. ♀. Aug.—Oct. v. v.
- senifolia.* 9. C. subpubescens ; foliis sessilibus integrerrimis ternatis, radiis integris, seminibus cuneato-oblongis.—*Willd. sp. pl. 3. p. 2254.*
C. major. Walt. fl. car. 214.
C. stellata. Herb. Banks. mss.
 On dry stony hills, in the mountains of Virginia and Carolina. ♀. Aug.—Oct. v. v.
- aurea.* 10. C. foliis serratis, radicalibus 3-partitis, caulinis trifidis integrisve lanceolato-linearibus. *Willd. sp. pl. 3. p. 2253.*
 In North America. ♀. +.
- trifida.* 11. C. glabra ; foliis trifidis subulatis fasciculatis, pedunculis terminalibus unifloris, radiis 3-fidis, caule subflexuoso.—*Lam. encycl. suppl. 2. p. 353.*

- Icon. *Lam. illustr.* t. 704. f. 2.
In North America. *Lamarck.* ♀. +. Resembles
C. verticillata.
12. *C. foliis verticillatis ternis quinise pinnatis, pinnis line-
aribus tripartitis indivisisque, disco concolore.* *Willd.*
sp. pl. 3. p. 2252. *tenuifolia.*
- C. verticillata.* *Lam. encycl.* 2. p. 108.
Icon. *Pluk. mant.* t. 344. f. 4.
On high dry mountain lands: Virginia and Carolina. ♀.
Aug.—Oct. v. v.
13. *C. foliis verticillatis ternis quinise pinnatis, pinnis line-
aribus tripartitis indivisisque, disco discolore.* *Willd.*
sp. pl. 3. p. 2151. *verticillata.*
- C. delphinifolia.* *Lam. encycl.* 2. p. 108.
Icon. *Bot. mag.* 156. *Ehret pict.* t. 9. f. 1.
On high mountains: Virginia and Carolina. ♀. Aug.
—Oct. v. v.
14. *C. glabra;* foliis petiolatis, inferioribus bipinnatifidis,
superioribus lineari-3-partitis, calycibus simplicius-
culis, seminibus nudis.—*Willd. sp. pl. 3. p. 2253.*
In low grounds of Carolina. *Michaux.* On the Mis-
souri. *M. Lewis.* ♂. July, Aug. v. v. *mitis.*

*** *Foliis alternis.*

15. *C. foliis ovato-lanceolatis acutis denticulatis subhirtis,
floribus corymboso-paniculatis.* *acuta.*
In Georgia. *Bartram.* ♂. v. s. in *Herb. Banks.*
16. *C. caule glabro superne nudiusculo dichotomo, foliis ple-
rumque alternis indivisis integerrimis in petiolum ang-
ustatis, seminibus obovatis bisetosis scabris, ala mar-
ginali fibriliato-lacera.* *Mich. fl. amer.* 2. p. 137.
C. gladiata. *Walt. fl. car.* 215.
In shady sphagnum swamps of New Jersey and Caroli-
na. ♂. July—Oct. v. v.
17. *C. foliis ellipticis acuminatis serratis petiolatis venosis
decurrentibus, inferioribus verticillatis, superioribus
alternis.* *Willd. sp. pl. 3. p. 2258.* *procera.*
In North America. *Aiton.* ♀. +.
18. *C. foliis lineari-lanceolatis integrerrimis laevis, radiis
oblongis trifidis, lacinia media majore.* *Willd. sp.*
pl. 3. p. 2257. *angustifolia;*
In Carolina and Florida. *Bartram.* ♀. v. s. in *Herb.*
Banks.

- aspera.* 19. *C. foliis lanceolato-linearibus asperis, superioribus alternis, inferioribus oppositis, caule unifloro.*
In Maryland. *v. s. in Herb. Banks.*

655. HELIANTHUS. *Gen. pl. 1322.** *Foliis oppositis.*

- atrorutens.* 1. *H. totus hispidus; caule superne nudiusculo laxe paniculato, foliis spatulatis ovatis crenatis triplinervibus scabris, squamis calycinis ovato-lanceolatis longitudine disci atropurpureo.* — *Willd. sp. pl. 3. p. 2245.*
Icon. Dill. eth. t. 94. f. 110. Mart. cent. t. 20.
In gravelly and slate soil, in the western parts: Pennsylvania to Carolina. ♀. ♂. Aug. Sept. *v. v.* Rays yellow; disk dark purple.
- pubescens.* 2. *H. cano-pubescent; caule villoso, foliis sessilibus cordato-ovatis amplexicaulibus triplinervibus adpresso-serratis, calycinis squamis lanceolatis villosis.* — *Willd. sp. pl. 3. p. 2244.*
H. mollis. Lam. encycl. 3. p. 81.
H. canescens. Mich. fl. amer. 2. p. 140.
In wet meadows of Kentucky and Tennessee. ♂. Aug.—Oct. *v. s.* Both ray and disk are yellow, which is the case with all the following species.
- disaricatus.* 3. *H. caule glabro ramosissimo, foliis suboppositis sessilibus lanceolato-ovatis trinervibus, panicula trichotoma gracili parviflora.* — *Willd. sp. pl. 3. p. 2244.*
Icon. Moris. hist. 3. s. 6. t. 7. f. 66. mala.
On the borders of woods and in hedges: Canada to Pennsylvania. ♀. Aug.—Nov. *v. v.* About five or six feet high; flowers smaller than any other species here enumerated.
- frondosus.* 4. *H. caule inferne glabro, foliis ovatis argute serratis, pedunculis scabris, calycibus squarrosis undulatis frondosis ciliatis, radiis 8-floris.* — *Willd. sp. pl. 3. p. 2241.*
In Canada. ♀. +. About four feet high; resembles *H. decapetalus* and *multiflorus* in several respects, but is distinct.
- trachelifolius.* 5. *H. foliis ovato-lanceolatis acuminatis serratis triplinervibus utrinque scaberrimis, calycinis squamis linearilanceolatis ciliatis, exterioribus longioribus.* *Willd. sp. pl. 3. p. 2241.*
H. Gigas. Mich. fl. amer. 2. p. 141.

- In woods and dry swamps: Canada to Carolina. \mathcal{U} . Aug.—Oct. *v. v.* Resembles *H. decapetalus*. About three feet high.
6. *H. glaberrimus*; caule paniculato, ramis summitate panicifloris, foliis subsessilibus longissime-lanceolatis triplinervibus integerrimis, inferioribus serratis, calycinis squamis ovatis acutis, exterioribus linearibus divaricatis. *longifolius*.
- In the western parts of Georgia. *Lyon*. \mathcal{U} . Aug.—Oct. *v. v.* From four to seven feet high; stem dark purple and very smooth; flowers middle size.
- ** *Foliis superioribus alternis*.
7. *H. foliis alternis lanceolatis serratis scabris obsolete triplinervibus utrinque attenuatis subsessilibus basi ciliatis, calycinis squamis lanceolatis ciliatis*. *Willd. sp. pl. 3. p. 2242.* *giganteus*,
- In dry swamps and on mountain meadows: Canada to Carolina. \mathcal{U} . Aug.—Oct. *v. v.* A tall, rough-looking plant; horses are fond of its young shoots. Stems rough and green.
8. *H. foliis alternis ovato-lanceolatis serratis scabris triplinervibus, apice attenuatis petiolatis, petiolis ciliatis, calycinis squamis lanceolatis ciliatis*. *Willd. sp. pl. 3. p. 2243.* *altissimus*.
- Icon. *Jacq. hort. vind. t. 160.*
- In copes and mountain meadows: Pennsylvania to Carolina. \mathcal{U} . July—Sept. *v. v.* Resembles the preceding; stems smooth and purple; the chaff of the receptacle is green in this species, but black in the preceding.
9. *H. foliis ovatis acuminatis serratis triplinervibus subtus scabris, calycinis squamis lineari-lanceolatis basi ciliatis*. *Willd. sp. pl. 3. p. 2242.* *strumosus*.
- Icon. *Bocc. sic. t. 27. f. 4.*
- In Canada and New England. \mathcal{U} . Aug.—Oct. *v. v.*
10. *H. caule debili prostrato, foliis lanceolatis acuminatis scabris serratis triplinervibus, superioribus integerrimis, calycinis squamis lanceolatis ciliatis*.—*Willd. sp. pl. 3. p. 2242.* *prostratus*.
- In North America. *Willdenow*. \mathcal{U} . +.
11. *H. foliis ovatis acuminatis remote serratis triplinervibus scabris, calycinis squamis lanceolatis subaequalibus* *decapetalus*.

subciliatis, radiis denis duodenisve.—*Willd. sp. pl. 3. p. 2241.*

Icon: *Rol. ic. 235.*

In dry stony soil, in woods, and on road sides: Canada to Virginia. 4. Aug.—Oct. v. v. About three or four feet high. Resembles the following.

- multiflorus.* 12. *H. foliis triplinervibus scabris, inferioribus cordatis, superioribus ovatis, radio multifloro, calycinis squamis lanceolatis.* *Willd. sp. pl. 3. p. 2239.*

Icon: *Bot. mag. 227. Pluk. phylogr. t. 159. f. 2.*

In dry mountain woods: Pennsylvania to Carolina. 4. July—Sept. v. v.

- mollis.* 13. *H. foliis ovatis acuminatis triplinervibus adpresso-serratis supra scabris, subtus cano-pubescentibus mollissimis, calycinis squamis lanceolatis adpressis.* *Willd. enum. 920. Willd. sp. pl. 3. p. 2240.*

H. tomentosus. *Mich. fl. amer. 2. p. 141.*

In exsiccated swamps: Pennsylvania and Virginia. 4. July—Oct. v. v. Leaves very rough on the upper surface, and soft underneath.

- macrophyllus.* 14. *H. foliis ovatis acuminatis triplinervibus serratis supra scabris, subtus cano-pubescentibus, calycinis squamis linearibus squarrosis.* *Willd. hort. berol. 70. cum icono.*

In Pennsylvania and Virginia, on the borders of woods. 4. Aug.—Oct. v. v.

- angustifolius.* 15. *H. caulinis gracilibus subunifloris, foliis linearibus margine revolutis asperis.* *Willd. sp. pl. 3. p. 2244.*
Rudbeckia angustifolia. *Willd. sp. pl. 3. p. 2250.*
 Icon: *Mill. ic. t. 224. f. 2.*
 In cedar-swamps: New Jersey to Florida. 4. Sept.—Nov. v. v. Rays deep yellow, disk brown.

656. GALARDIA. *Gen. pl. 1323.*

bicolor.

1. *G. caule ramoso, foliis amplexicaulibus lanceolatis inciso-dentatis obtusis, paleis pappi integerrimis aristatis.* *—Willd. sp. pl. 3. p. 2245.*

G. lanceolata. *Mich. fl. amer. 2. p. 142.*

Gaillarda pulchella. *Fougeroux act. par. 1785.*

Colonnea pulcherrima. *Buchor. ic. t. 126.*

Virgilia helioides. *L'Herit. monog.* *Smith exot. bot. p. 71. t. 37.*

Leysera caroliniana. Walt. *fl. car.* 211. *secundum* Herb.
Icon. *Lam. illustr.* t. 708.

In dry sandy soil: Carolina to Florida. ♂. July, Aug.
v. v. About two feet high; flowers large and very
showy; rays orange with red towards the base, disk
dark purple with orange.

2. *G. caule simplicissimo unifloro, foliis radicalibus obovatis, caulinis linearibus, paleis pappi laceris.* Willd.
sp. pl. 3. p. 2246. *fimbriata.*

In open swamps of Carolina and Florida. Michaux.

+

3. *G. hirsutissima, scabra; caule ramoso, foliis linearilanceolatis sessilibus, paleis pappi (5—7) ovato-lanceolatis longissime aristatis.* *aristata.*

On dry hills on the Rocky-mountains. M. Lewis. ♂.
v. s. in *Herb. Lewis.* Flowers orange-coloured.

Planta hirsutissima. Caulis erectus, teres, ramosus.
Rami uniflori. Folia caulina alterna, longe-linearilanceolata, sessilia, scabra, hirsutissima. Calyx subimbricatus, polyphyllus: foliolis linear-oblongis, acutissimis, disco duplo longioribus, margine coloratis.
Corollæ: Radii circiter 12. obtuse: laciniis oblongis, subæqualibus, obtusiusculis; Disci tubulosæ, 5-fidæ: laciniis extus purpurascensibus hirsutissimis. Receptaculum in ambitu subpaleaceum, centro setosum. Pappus: paleis 5—7. scariosis, ovatis, longissime-setaceo-aristatis.

657. RUDBECKIA. Gen. pl. 1324.

1. *R. aspera; foliis inferioribus lato-ovatis basi attenuatis remote dentatis, caulinis lanceolato-ovatis utrinque acuminatis subintegerrimis, radiis longissimis dependentibus bifidis.* — Willd. sp. pl. 3. p 2249.

Icon. *Bot. mag.* 2. *Catesb. car.* 2. t. 59. *Pluk. alm.*
t. 21. f. 1.

In the mountains: Virginia to Florida. ♀. Aug.—
Oct. v. v. A highly ornamental perennial; flowers
large, rays purple, disk brown.

2. *R. glabra; foliis oblongo-lanceolatis cordatis amplexicaulis, inferioribus serratis, disco cylindraceo-conico.* — Willd. sp. pl. 3. p. 2249. *amplexifolia.*

R. amplexicaulis. Vahl in *act. soc. nat. scrut. haf.* 2.
p. 29. t. 4.

purpurea.

- R. persoliata*. *Cav. ic. 3. p. 27. t. 252.*
Icon. Jacq. ic. rar. 3. t. 592.
 In Lower Louisiana, on the banks of the Mississippi.
 ○. July, Aug. v. v. Flowers deep yellow.
- lævigata*. 3. *R. undique glaberrima ; caule lævigato paniculato, ramis corymbosis, pedunculis elongatis unifloris, foliis ovato-lanceolatis utrinque acuminatis triplinervibus integerimis aut dente uno altero instructis lævigatis, calycinis foliolis lanceolatis longitudine radii.*
 In Georgia. *Lyon*. ♀. v. s. in *Herb. Lambert*. Rays pale yellow, short.
- discolor*. 4. *R. ramis corymbosis unifloris, pedunculis nudis elongatis, foliis lanceolatis strigoso-pilosis subintegerimis, calycinis foliolis ovatis acutis, petalis lanceolatis integerimis discoloribus longitudine calycis.*
 In Florida. *Bartram*. ♀. v. s. in *Herb. Banks*. Flowers small, rays yellow, and deep orange or purple underneath.
- spathulata*. 4. *R. gracilis, pubescens ; caulibus unifloris, foliis obovato-spathulatis integerimis, calyce patulo imbricato, radis tridentatis.—Willd. sp. pl. 3. p. 2249.*
R. gracilis. *Herb. Banks. mss.*
 In the mountains of Carolina. *Michaux*. In Florida. *Bartram*. ♂. July, Aug. v. s. in *Herb. Banks*.
- aristata*. 5. *R. caule hispido, ramis elongatis corymbosis unifloris, foliis lanceolato-oblongis serratis hispidis, disco subhemisphaerico, paleis pappi subulatis aristatis.—Herb. Banks. mss.*
 In South Carolina. v. s. in *Herb. Banks*. Flowers small, deep yellow.
- fulgida*. 6. *R. caule hispido, ramis virgatim elongatis unifloris, foliis oblongo-lanceolatis denticulatis hispidis basi angustatis subcordatis, calyce foliaceo radium subæquante, disco hemisphaerico, paleis lanceolatis.—Willd. sp. pl. 3. p. 2248.*
 In mountain meadows and woods: Pennsylvania to Carolina. ♀. July—Oct. v. v. Rays dark orange-coloured, disk deep purple.
- hirta*. 7. *R. hirsutissima ; caulibus virgatis subramosis unifloris, pedunculo nudo, foliis ovato-spathulatis triplinervibus serratis hirtis, calyce foliaceo radium subæquante, disco conico, paleis lanceolatis.—Willd. sp. pl. 3. p. 2248.*
Icon. Dill. eth. t. 218. f. 285. Pluk. alm. t. 242. f. 2.

In the mountains: Virginia to Florida. ♂. July—
Sept. v. v. Resembles the preceding; rays yellow,
disk dark brown.

8. *R. caule inferne hispido, superne glabro nudiusculo, pedunculis longissimis unifloris, foliis ovatis attenuatis tuberculatis hispidis, calycibus imbricatis, squamis ovatis acuminatis ciliatis.*

In Georgia. *Bartram.* ♂. v. s. in *Herb. Banks.*

9. *R. hispido-pilosa; caule paniculato, ramis divaricatis multifloris foliosis, foliis lanceolatis utrinque acuminate serratis, inferioribus trilobis, calycinis foliolis linearibus deflexis longitudine radii.—Willd. sp. pl. 3. p. 2247.*

Icon. *Pluk. alm.* 22. f. 2.

In the Virginia and Carolina mountains. ♀. ♂. Aug.
Sept. v. v. About four or five feet high; flowers small, pale yellow.

10. *R. brevi pubescentia subtomentosa; caule ramoso, ramis erectis multifloris, foliis oblongo-lanceolatis acutis subserratis, inferioribus trilobis, calycinis foliolis incumbentibus radio brevioribus.*

R. triloba β. *Mich. fl. amer.* 2. p. 144.

In mountain meadows: Virginia and Illinois. ♀. Aug.
Sept. v. v. Not near so high as the preceding, from which it is very distinct, though Michaux considers it only a variety.

11. *R. caule stricto simplici summitate paucifloro, pedunculis elongatis, foliis pinnatifidis incisis, lacinias linearibus, calyce simplici 5-phyllo, radiis 5—8., disco cylindraceo elongato.*

R. columnifera. *Fraser catal.* 1813.

On the Missouri. v. s. The singular appearance of the receptacle of this plant distinguishes it from all the other known species.

12. *R. foliis inferioribus pinnatis, pinnis 3-lobis, summis ovatis, pappo crenato, caule glabro. Schrad. new. journ. 2. p. 61. Willd. enum. 921.*

Icon. *Moris. hist.* 3. s. 6. t. 6 f. 53. *Corn. canad.* t. 179.
On the edges of swamps and ditches: Canada to Virginia. ♀. Aug.—Oct. v. v. From five to ten feet high.

13. *R. foliis inferioribus pinnatis, pinnis pinnatifidis, superioribus simplicibus pinnatis, summis 3-fidis, pappo*

Radula.

triloba.

columnaris.

lacinata.

digitata.

crenato, *caule lœvi*. *Schrad. new. journ. 2. p. 61.*
Wild. enum. 921.

Icon. *Moris. hist. 3. s. 6. t. 6. f. 54.*
In the mountains of Virginia and Carolina. 4. Aug.—
Oct. v. v. Resembles the preceding.

pinnata.

14. *R. foliis omnibus pinnatis, pinna una alterave inferiorum bipartita, reliquis indivisis, pappo integrerrimo, caule sulcato hispido.* *Schrad. new. journ. 2. p. 61.*
Wild. enum. 921. *Mich. fl. amer. 2. p. 144.*

R. digitata. *Wild. sp. pl. 3. p. 2247. excl. syn. Morrison. et Aiton.*

R. odorata. *Hortul.*

Icon. *Smith exot. bot. 38.* *Vent. jard. cels 71.*
In the western parts of Carolina and Georgia. 4. July—
Oct. v. v. Flowers very showy, of an anise scent; rays long, bright yellow, hanging downwards; disk ovate, purple.

658. CENTAUREA. *Gen. pl. 1331.*

Cyanus.

1. *C. squamis calycinis serratis, foliis linearibus integerimis, inferioribus dentatis.* *Smith fl. brit. 2. p. 911.*
Wild. sp. pl. 3. p. 2291.

Icon. *Engl. bot. 277.* *Fl. dan. 993.*

In rye and wheat fields; rare. Brought from Europe with the grain. ①. July, Aug. v. v. Flowers blue.

solstitialis.

2. *C. calycibus palmato-spinosis solitariis, spinis rectis, foliis canescensibus lineari-lanceolatis decurrentibus integerimis, radicalibus lyratis.* *Wild. sp. pl. 3. p. 2309.*

Icon. *Engl. bot. 243.*

In sandy fields and woods: New Jersey: introduced from Europe. ①. July, Aug. v. v. Flowers yellow.

IV. N E C E S S A R I A.

659. CHAPTALIA. *Vent. hort. cels* 61.

1. *C. foliis ovato-oblongis integerrimis subtus argenteo-tomentosis, scapo nudo unifloro, flore nutante.*—*Vent. l. c. cum icon.* *tomentosa.*
Tussilago integrifolia. *Mich. fl. amer.* 2. p. 121.
Perdicium semiflosculare. *Walt. fl. car.* 204.
 In sandy fields and woods, in moist soil: Carolina to Florida. ♀. May, June. v. v. Flowers white, with a tinge of pale purple.

660. SILPHIUM. *Gen. pl.* 1334.

1. *S. caule superne hispido, foliis radicalibus caulinisque pinnatifidis, lacinii dentato-sinuatis, calycinis foliolis subcordatis acuminatis.*—*Willd. sp. pl.* 3. p. 2330. *laciñiatum.*
 Icon. *Linn. fil. fasc.* 1. t. 3.
 On the banks of rivers in the western territories, particularly on the Mississippi. ♀. Aug.—Oct. v. v. From eight to twelve feet high; flowers large, and, as all the rest of the genus, yellow.
2. *S. caule lœvi, foliis caulinis sinuato-pinnatifidis, radicalibus ternatis sinuato-multifidis, floribus parvis paniculatis.*—*Willd. sp. pl.* 3. p. 2331. *compositum.*
S. laciniatum. *Walt. fl. car.* 217.
S. sinuatum. *Herb. Banks. mss.*
 In gravelly woods, near the sea-coast: Virginia and Carolina. ♀. Aug.—Oct. v. v. Not above two feet high; flowers small.
3. *S. caule lœvi, foliis radicalibus amplis cordatis, caulinis *terebinthina-alternis* ovatis serratis scabris.*—*Willd. sp. pl.* 3. *ceum.* p. 2331.
 Icon. *Jacq. hort.* 1. t. 43.
 In the western mountains and Louisiana. ♀. Aug.—Oct. v. v. About five feet high; radical leaves very large.
4. *S. caule tetragono lœvi, foliis oppositis connatis ovatis *perfoliatum.* serratis.*—*Willd. sp. pl.* 3. p. 2331.
- β. *S. squamis calycinis quatuor exterioribus calyce interiore conjunctum. longiore.* *Willd. enum.* 933.
 In the Allegany mountains: Pennsylvania to Carolina.

- ♀ . July—Oct. *v. v.* A tall robust plant. Var. β . though considered by Willdenow as a distinct species, appears to be little more than a variety.
- connatum.* 5. *S. caule tereti hispido, foliis oppositis connatis remote serratis scabris.*—*Willd. sp. pl. 3. p. 2332.*
In high mountainous of Virginia and Carolina. ♀ . Aug. Sept. *v. v.* Resembles the preceding, but is a very distinct species.
- Asteriscus.* 6. *S. caule tereti hispido, foliis oppositis alternisve oblongis acutis serratis scabris, calycibus ciliatis.*—*Willd. sp. pl. 3. p. 2332.*
Icon. *Dill. elth. t. 37. f. 42.*
In mountain meadows: Virginia and Carolina. ♀ . July—Sept. *v. v.*
- pumilum.* 7. *S. caule tenuiter tomentoso, foliis ovalibus leviter serratis obtusis subtomentosis, calycinis foliolis obovatis obtusis, seminibus muticis.*—*Willd. sp. pl. 3. p. 2332.*
S. patulum. Herb. Banks.
In Florida. *Michaux. Bartram.* ♀ . *v. s. in Herb. Banks.*
- integerrifolium.* 8. *S. caule tetragono aspero, foliis oppositis sessilibus oblongis integerrimis scabris, floribus paucis breviter pedunculatis.*—*Willd. sp. pl. 3. p. 2333.*
On the most western of the Allegany mountains and Illinois. ♀ . Aug.—Oct. *v. v.* About four feet high.
- lævigatum.* 9. *S. caule simplici tetragono sulcato glabro, foliis oppositis sessilibus ovatis acuminatis tenuissime serratis basi subcordatis utrinque glabris, calycinis squamis ovatis ciliatis.*
In Georgia. *Enslen.* ♀ . *v. s. in Herb. Enslen.* About two feet high; flowers in a close corymb.
- trifoliatum.* 10. *S. caule sexangulo lævi, foliis terno-verticillatis ovato-lanceolatis inæqualiter dentato-serratis scabris, superioribus sessilibus, panicula trichotoma.*—*Willd. sp. pl. 3. p. 2333.*
S. ternifolium. Mich. fl. amer. 2. p. 146.
Icon. *Moris. hist. 3. s. 6 t. 3. f. 68.*
On the high mountains of Virginia and Carolina. ♀ . Sept. Oct. *v. v.* About six feet high.
- ternatum.* 11. *S. caule tereti lævi, foliis terno-verticillatis petiolatis lanceolatis subdenticulatis scabriusculis basi ciliatis, superioribus sparsis sessilibus, panicula dichotoma, calycibus ciliatis.*—*Willd. sp. pl. 3. p. 2333.*

In North America. *Retz.* ♀. *v. s. in Herb. Lambert.*

12. *S. caule tereti lœvi, foliis subquaterno-vorticillatis lanceolatis scabris subintegerrimis subsessilibus basi ciliatis, superioribus sparsis, panícula dichotoma.* — *Willd. sp. pl. 3. p. 2334.*

atropurpureum.

In Carolina and Georgia. *Lyon.* ♀. Aug. Sept. *v. v.*
Resembles the preceding ; but its purple smooth stem
distinguishes it at first sight.

13. *S. caule petiolisque tomentosus, ramis unifloris, foliis alternis cordatis ovatis serratis petiolatis villosis, semi-nibus muticis.* — *Herb. Banks. mss.*

In Georgia. *Bartram.* ♀. *v. s. in Herb. Banks.*

14. *S. foliis alternis petiolatis cordatis sinuatis, squamis calycinis obtusis.* — *Herb. Banks. mss.*

elatum.

In Carolina. ♀. *v. s. in Herb. Banks.*

15. *S. foliis alternis ovato-lanceolatis cordatis serratis obtusiusculis villosiusculis.* — *Herb. Banks. mss.*

reticulatum.

In Florida. ♀. *v. s. in Herb. Banks.*

661. POLYMNIA. *Gen. pl. 1335.*

1. *P. viscidо-villosa ; foliis denticulatis acuminatis, inferioribus pinnatifidis, superioribus trilobis integrise.* — *Willd. sp. pl. 3. p. 2335.*

canadensis.

Icon. *Amer. acad. 3. t. 1. f. 5.*

In shady mountains : Canada to Virginia. ♀. June,
July. *v. v.* Two or three feet high ; flowers yellow ;
the whole plant has a strong balsamic scent.

2. *P. foliis oppositis trilobis acutis in petiolum decurrentibus, lobis anguloso-sinuatis, radiis elongatis.* — *Willd. sp. pl. 3. p. 2335.*

Uvedalia.

P. maculata. Cav. ic. 3. t. 227.

Icon. *Pluk. alm. t. 83. f. 3. Moris. hist. 3. s. 6. t. 7. f. 55. Trew pict. suppl. 112.*

In the mountains of Virginia and Carolina. ♀. July—
Sept. *v. v.* From four to eight feet high.

662. CHRYSOGONUM. *Gen. pl. 1337.*

1. *C. pumilum, lanato-vilosum ; foliis in petiolum angustatis ovalibus dentatis.* — *Willd. sp. pl. 3. p. 2337.*

Icon. *Pluk. alm. t. 83. f. 4. f. 5 t. 242. f. 3.*

On dry hills : Virginia and Carolina. ♀. May, June.
v. v. Not above a span high ; flowers yellow.

663. BALTIMORA. *Gen. pl.* 1333.

- recta.* 1. *B. scabra*; caule dichotomo, foliis oppositis ovatis acuminatis serratis petiolatis.—*Willd. sp. pl.* 3. p. 2329.
Icon. *Plak. mant.* t. 342. f. 3.
In Maryland near Baltimore. *Sp. pl.* ☎. July. v. v. cult. Flowers small, yellow. I have never seen this plant in any part of the United States, and suppose it to be only an inhabitant of Vera Cruz.

664. PARTHENIUM. *Gen. pl.* 1428.

- integrifolium.* 1. *P. foliis oblongis inaequaliter dentatis asperis, superioribus amplexicaulibus.*—*Willd. sp. pl.* 3. p. 2385.
Icon. *Willd. hort. berol.* t. 4. *Dill. elth.* t. 225. f. 292.
Plak. alm. t. 53. f. 5. & t. 219. f. 1. *Lam. illustr.* t. 766.
In dry places on the mountains of Virginia and Carolina. 1/2. Sept. Oct. v. v. About a foot high; flowers white.

665. IVA. *Gen. pl.* 1429.

- ciliata.* 1. *I. caule herbaceo, foliis lanceolato-ovatis subserratis, spica consertiuscula, bracteis lanceolatis acuminatis petiolatis que longe ciliatis.*—*Willd. sp. pl.* 3. p. 2386.
In natural meadows: Kentucky and Illinois. ☎. July, Aug. v. s. About two feet high.
- imbricata.* 2. *I. fruticosa, glabra; foliis linear-lanceolatis cuneatis integrerrimis glabris, calycibus imbricatis.*—*Willd. sp. pl.* 3. p. 2387. *Walt. fl. car.* 232.
I. integrifolia. Herb. Banks. mss.
On the sea-coast of Carolina and Georgia. 1/2. v. s. in *Herb. Walter.*
- frutescens.* 3. *I. fruticosa; foliis lanceolatis punctato-scabris profunde serratis, glomerulis florum depresso-globosis.*—*Willd. sp. pl.* 3. p. 2387.
Icon. *Lam. encycl.* 766. *Plak. alm.* t. 27. f. 1.
On the sea-coast: New England to Florida. 1/2. Aug. Sept. v. v. A shrub about four feet high.

666. AMBROSIA. *Gen. pl.* 1427.

- integrifolia.* 1. *A. foliis ovatis sessilibus acuminatis serratis utrinque hispidis basi ciliatis, racemis terminalibus plerumque ter-*
nis.—*Willd. sp. pl.* 4. p. 375.

- On the banks of ponds and ditches : Pennsylvania and Virginia. ♂. July—Sept. v. v. The flowers of this genus are very inconspicuous.
2. A. hirsutissima ; foliis arcte sessilibus simplicibus oblongis supra basin latescentem utrinque unidentatis, fructu tetragono infra apicem quadrispinoso. *Mich. fl. amer.* 2. p. 182. *bidentata.*
- In the western parts of the Allegany mountains ♂. July—Sept. v. v.
3. A. hirsuta, aspera ; foliis 3-lobis serratis, lobis ovali-lanceolatis acuminatis, fructu infra apicem 6-spinoso.—*Willd. sp. pl. 4. p. 375.* *trifida.*
Icon. *Moris. hist. 3. s. 6. t. 1. f. 4.*
- On the banks of rivers and ditches : Pennsylvania to Carolina. ♂. Aug. Sept. v. v. From five to eight feet high.
4. A. foliis bipinnatifidis glabriusculis, petiolis longe ciliatis, racemis terminalibus paniculatis, caule virgato. *Willd. sp. pl. 4. p. 376.* *elatior.*
Icon. *Pluk. alm. t. 10. f. 5.*
- In old fields : Canada to Carolina. ♂. June—Aug. v. v.
5. A. foliis bipinnatifidis subtus canescensibus summis pinnatifidis, racemis terminalibus, ramis fastigiatis. *Willd. sp. pl. 4. p. 376.* *artemisiifolia.*
Icon. *Pluk. alm. t. 10. f. 5.*
- In fields and waste grounds : Pennsylvania to Carolina. ♂. Aug. Sept. v. v.
6. A. foliis glabris bipinnatifidis summis pinnatifidis, racemis terminalibus solitariis, ramis fastigiatis. *Willd. sp. pl. 4. p. 376.* *paniculata.*
Icon. *Pluk. alm. t. 10. f. 5.*
- In old fields and on road sides : Canada to Florida. ♂. July—Sept. v. v.
7. A. foliis caulinis pinnatifidis subdentatis petiolatis, rameis *heterophylla.* summis lanceolatis sessilibus, petiolis longe ciliatis, racemis terminalibus solitariis, caule paniculato. *Willd. sp. pl. 4. p. 378.*
- On the banks of rivers and ditches : near Philadelphia. ♂. July—Sept. v. v.

667. XANTHIUM. *Gen. pl. 1426.*

1. X. caule inermi ramoso, foliis cordatis lobatis serratis *Strumarium.* scabris basi trinervibus, fructibus ellipticis pubescentibus setis rigidis uncinatis.—*Willd. sp. pl. 4. p. 373.*

Icon. *Fl. dan.* 970.

On road sides, among rubbish and cultivated grounds :
New England to Pennsylvania. ♂. Aug. Sept. v. v.
The fruit resembles the common *Burdock*.

V. S E G R E G A T A.

668. ELEPHANTOPUS. *Gen. pl.* 1347.

- carolinianus.* 1. E. foliis radicalibus caulinisque oblongis basi angustatis utrinque pilosis, caule simplici erecto piloso.—*Willd.* sp. *pl.* 3. p. 2390.
E. scaber. *Mich. fl. amer.* 2. p. 148.
 Icon. *Dill. elth.* t. 106. f. 126. *Sloan. hist.* 1. t. 156. f. 1.
 In shady woods: Virginia to Florida. ♀. Aug.—Oct. v. v. Flowers red.
- tomentosus.* 2. E. foliis radicalibus caulinisque ovatis basi attenuatis utrinque tomentosis, caule simplici tomentoso.—*Willd.* sp. *pl.* 3. p. 2390.
 On dry sunny hills: Lower Virginia and Carolina. ♀. Aug.—Oct. v. v. Flowers deep red.

XVIII. GYNANDRIA.

I. MONANDRIA.

* *Calculatæ; filamentum basi styli insertum.*

669. THALIA. *Cal. minimus, triphyllus. Cor. 5-petala: duo interiora minora. Anthera simplex, ovata, filamento proprio depresso innixa. Stylus simplex, ab anthera deflexus. Stigma perforatum ringens. Bacca 1-sperma.*
670. CANNA. *Cal. 3-phyllus. Cor. 6-partita, erecta. Nectar. bipartitum revolutum. Styl. lanceolatus, corollæ adnatus. Caps. muricata, 3-locularis, poly-sperma.*
- ** *Ecalculatæ; filamentum nullum; anthera apice stylì inserta, biloba.*
671. ORCHIS. *Cor. ringens: petalo superiore fornicato. Labellum dilatatum, basi subtus calcaratum aut sac- catum. Anthera terminalis, adnata.*
672. NEOTTIA. *Cor. ringens: petalis lateralibus exte-rioribus antice circa basin labelli ventricosum con-nexis. Anthera stylo parallela, postice inserta.*
673. ARETHUSA. *Cor. subringens: petalis subconniven-tibus. Labellum ecalcaratum. Anthera opercularis, persistens. Pollen pulvereo-granulatum.*
674. EPIPACTIS. *Cor. erecto-patens. Labellum ecalca-ratum, planum, pendulum, apice bifidum. Anthera opercularis, persistens.*
675. MALAXIS. *Cor. patens, resupinata. Labellum con-cavo-patulum, adscendens. Anthera opercularis.*
676. CYMBIDIUM. *Cor. erecta vel patens. Labellum basi concavum, ecalcaratum, lamina patula. Anthera opercularis, decidua. Pollen globosum.*

677. CALYPSO. *Cor. 6-petala: 5. sursum expansa. Labellum sacciforme, dorso basis 2-calcaratum. Stylus late alatus. Stigma operculo 2-lobo absconditum. Pollen lamellis 4. solidis.*

II. DIANDRIA.

678. CYPRIPEDIUM. *Cor. 4-petala, patens. Labellum ventricoso-inflatum, obliquum. Stylus superne lobo petaloideo appendiculatus.*

III. HEXANDRIA.

679. ARISTOLOCHIA. *Cor. 1-petala, tubuloso-ligulata, basi ventricosa. Styl. 0. Caps. infera, 6-locularis.*

IV. DODECANDRIA.

680. ASARUM. *Cor. tubuloso-campanulata, 3-4-fida. Antheræ mediis filamentis adnatæ. Caps. infera, coronata, 6-locularis.*

I. MONANDRIA.

669. THALIA. *Gen. pl. 10.*

dealbata.

1. T. panicula albido-pulverulenta, spathis bifloris, foliis ovatis apice revolutis.—*Roscoe in linn. trans. 8. p. 340.* Icon. *In a single plate of J. Fraser.*
In impenetrable swamps of South Carolina. $\frac{3}{4}$. Aug. Sept. *v. v. s. fl.; v. s. c. fl. in Herb. Lambert.* A tall and handsome plant; flowers small, purple. J. Millington, Esq. of South Carolina, is, to my knowledge, the first discoverer of this elegant plant. It was introduced into the English gardens by the Messrs. Frasers.

670. CANNA. Gen. pl. 1.

1. C. foliis petiolatis lanceolatis costatis, corollæ limbo interiore trifido : laciiniis strictis emarginatis.—*Willd. sp. pl. 1. p. 3?*
C. glauca. *Walt. fl. car. 59.*
In deep and almost impregnable swamps of Georgia.
Enslen. Ʌ. July, Aug. v. s. in *Herb. Enslen.* Flowers scarlet. It approaches near to *C. indica*, and probably may be a new species, if not the true *C. angustifolia*.
2. C. foliis sessilibus lanceolatis glaucis, corollæ limbo interiore trifido : laciiniis flaccidis.—*Roscoe in linn. trans. 8. p. 339.*
C. glauca β. flaccida. *Willd. sp. pl. 1. p. 4.*
C. angustifolia. *Walt. fl. car. 59.*
Icon. *Salisb. stirp. rar. 3. t. 2.* *Thomps. bot. t. 1.* *Redouté liliac. 107.*
In swamps of South Carolina. Ʌ. Aug. Sept. v. v.
Flowers large, yellow.

671. ORCHIS. *Swartz act. holm. 1800, p. 205.** *Radicibus testiculatis.*

1. O. labello oblongo-lanceolato pinnatum ciliato petalis duplo longiore, cornu germine longiore. *Willd. sp. pl. 4. p. 8.*
Icon. *Bot. rep. 42.*
In old meadows and exsiccated swamps : Canada to Carolina. Ʌ. June, July. v. v. Flowers a bright golden-yellow, very handsome.
2. O. labello lanceolato ciliato longitudine petali supremi, *blephariglot-* cornu germine longiore. *Willd. sp. pl. 4. p. 9.* *Orchis testiculata floribus niveis, &c. Clayt. no. 560.*
In low swampy bottoms : New Jersey to Carolina. Ʌ. June, July. v. v. Flowers clear white; resembles the preceding very much.
3. O. labello 3-partito, laciiniis capillaceo-multifidis, petalis obtusis, cornu filiformi-clavato adscendente germinis longitudine. *Willd. sp. pl. 4. p. 39.*
In old fields, on the side of swamps : Canada to Virginia. Ʌ. June—Aug. v. s. Flowers yellow.
4. O. labello oblongo pinnatim-ciliato, petalis rotundatis, binis lateralibus dentatis, cornu germine breviore. *Willd. sp. pl. 4. p. 9.* *Mich. fl. amer. 2. p. 156.*

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- In exsiccated swamps and mountain meadows: Pennsylvania to Carolina. ♀. June, July. v. v. In colour and shape resembling No. 1; but the flowers are smaller and closer, in a short spike.
- lacera.* 5. *O. labello 3-partito, lacinia subdigitato-filiformibus, cornu germen subaequante, floribus alternis.* — *Mich. fl. amer. 2. p. 156.*
O. radice palmata, foliis lilii, &c. *Clayt. n. 644.*
 In low meadows: Pennsylvania to Virginia. ♀. July. v. v. Flowers greenish-white. Roots not known.
- clavellata.* 6. *O. labello ovato integerrimo, petalis conniventibus, cornu clavato longitudine germinis, caule unifoliato.* *Willd. sp. pl. 4. p. 10.* *Mich. fl. amer. 2. p. 155.*
 In Carolina. *Michaux.* ♀. +. A loose spike, with few flowers; bracts very short.
- quinqueseta.* 7. *O. labello 5-partito : lacinia setaceis, cornu germine duplo longiore.* — *Mich. fl. amer. 2. p. 155.*
 In sandy low fields, on the side of swamps: Virginia and Carolina. ♀. June, July. v. v. A loose spike, with alternate and distant flowers; bracts acuminate; leaves ovate, acute.
- * *discolor.* 8. *O. labello petalis longiore tripartito : lacinia lateralibus brevibus acutis, intermedia producta spatulata, cornu filiformi germine subduplo-longiore, folio unico radicali ovato-cordato.*
Orchis floribus sparsis, nectario pedunculum superante, &c. *Gron. virg. 137.*
 In pine-barrens: New Jersey to South Carolina. ♀. July. v. v.
Bulbus testiculatis, ovatis, acutis. Folium unicum, ovatum, petiolatum, plicato-nervosum, glabrum, subtus purpurascens. Petiolas margine plicato-undulatus. Scapus pedatis, nudus, vagina una alterave instructus, teres, glaber. Flores laxe spicati, brevissime pedicellati, natantes, tristis seu exviridi-purpurentes. Petala oblonga, acutiuscula, flexuosa. Labellum petalis longius, margine subundatum. Cornu adscendens, filiforme, flexuosum, purpureum.
- ** *Radicibus palmatis.*
- flava.* 9. *O. labello trifido integerrimo : lacinia media magiore, cornu filiformi longitudine germinis, spica elongata congesta, bracteis flore longioribus.* — *Willd. sp. pl. 4. p. 32.*

In Virginia. ♀. July. v. s. in Herb. Gronov. Flowers yellow.

10. O. labello linearis apice tridentato, petalis conniventibus, cornu obtuso scrotiformi, bracteis flore sesquilongioribus. Willd. sp. pl. 4. p. 33.

Satyrion viride. Sp. pl. 1357.

Icon. Fl. dan. 77. Hall. helv. t. 26.

In dry grassy places, on the high mountains of Virginia and Carolina. ♀. June, July. v. v. Not above three inches high; flower small, greenish-white.

11. O. labello lanceolato apice tridentato, petalis obtusis, cornu filiformi apice clavato-ascendente germine longiore. Willd. sp. pl. 4. p. 41.

On the high mountains of Pennsylvania and Virginia. ♀. June, July. v. v. Spike consisting of but a few small white flowers.

12. O. labello linearis apice emarginato obsolete 3-dentato, petalis subconniventibus, lateralibus ovatis latioribus, cornu obtuso scrotiforme, bracteis flore duplo longioribus patentibus. Willd. sp. pl. 4. p. 34.

Icon. Parad. lond. 110.

O. foliis duobus inferioribus ovatis, superioribus, &c. Gron. virg. 136.

In low shady places: Pennsylvania to Virginia. ♀. July, Aug. v. v. About a span high; flowers green.

13. O. labello oblongo lanceolato indiviso, petalis erectis, cornu obtuso scrotiformi, germinibus pedicellatis, scapo nudo. Willd. sp. pl. 4. p. 34.

Serapias foliis ovatis radicalibus, scapo nudo multifloro. Gron. virg. 137.

In low shady places: New England to Virginia; rare. ♀. July, Aug. v. v. The bracts are very short.

*** *Radicibus fasciculatis*.

14. O. labello ovato basi dentato, petalis patentibus, cornu subulato germinis longitudine. Willd. sp. pl. 4. p. 35.

Icon. Gmel. fl. sib. 1. p. 20. t. 4. f. 2.

On grassy hills: Pennsylvania. ♀. July. v. v. Flowers in long spikes, dark or brownish yellow; bracts very long, acuminate, and longer than the flowers.

15. O. labello obovato indiviso crenato retuso, petalis rectis, lateralibus longioribus, cornu clavato germine breviore, bracteis flore longioribus, caule aphylio. Willd. sp. pl. 4. p. 36.

viridis.

tridentata.

bracteata.

obsolete.

fuscescens.

spectabilis.

- O. humilis.* *Mich. fl. amer.* 2. p. 155.
In shady, rocky situations: New York to Carolina; particularly on the mountains. $\frac{1}{2}$. May, June. v. v. About a span high; flowers large, purple and white, very handsome.
- orbiculata.* 16. *O. labello linearis integerrimo obtusiusculo, petalis 3. superioribus conniventibus, 2. lateralibus patentibus basi obliquis, cornu germinis longiore, scapo basi diphylo, foliis planis orbiculatis.*
In shady beech-woods: on the mountains of Pennsylvania and Virginia. $\frac{1}{2}$. July, Aug. v. v. Resembles *O. bifolia*. Two leaves of a fleshy texture are spread flat on the ground, between which rises the stalk about a foot or eighteen inches high, which bears a loose spike of greenish-white flowers. It is known in the mountains by the name of *Heal-all*.
- dilatata.* 17. *O. labello linearis integerrimo obtusiusculo, basi subrotundato-dilatato, cornu longitudine labelli: germinis breviore, bracteis longitudine florum, caule folioso.*
O. acuta. *Herb. Banks. mss.*
In Labrador. *Colmaster.* $\frac{1}{2}$. v. s. in *Herb. Dickson.*
- virescens.* 18. *O. labello lanceolato crenato, petalis conniventibus, cornu obtuso scrotaformi, bracteis flore longioribus.* *Willd. sp. pl. 4. p. 37.*
In boggy meadows: Pennsylvania. $\frac{1}{2}$. July. v. s. From a foot to eighteen inches high; flowers green.
- hyperborea.* 19. *O. labello lanceolato magnitudine petalorum patentium, cornu subulato germinis breviore, spica ovata, bracteis longitudine florum.* —*Willd. sp. pl. 4. p. 37.*
Icon. *Retz obs. bot. 4. t. 3.*
In Hudson's Bay, near Albany. *Hutchinson.* $\frac{1}{2}$. June, July. v. s. in *Herb. Banks.* Flowers greenish-yellow.
- obtusata.* 20. *O. labello linearis integerrimo cornu longiore, cornu longitudine germinis, folio unico radicali subcuneiforme obtuso.* —*Herb. Banks. mss.*
On Hudson's Bay, near Fort Albany. *Hutchinson.* $\frac{1}{2}$. v. s. in *Herb. Banks.* A small species, with a few flowers only.
- rotundifolia.* 21. *O. labello 3-fido; intermedio bifido, cornu germinis breviore, foliis ovali-subrotundis.* —*Herb. Banks. mss.*
On Hudson's Bay. $\frac{1}{2}$. v. s. in *Herb. Banks.*
- fimbriata.* 22. *O. labello tripartito, laciniis cuneiformibus ciliato-fimbriatis, petalis lateralibus ovatis dentatis, cornu fili-*

formi clavato germine longiore. *Willd. sp. pl. 4. p. 39.*

In low meadows and on high mountain bogs : Canada to Pennsylvania. ♀. July. v. v. From a foot to two high; flowers purple, very handsome.

23. *O. labello tripartito, laciniis cuneiformibus inciso-dentatis, intermedia emarginata, petalis lateralibus obtusis sub-dentatis, cornu subulato adscendente germinis longitudine.* *Willd. sp. pl. 4. p. 40.*

incisa.

In low meadows : New York to Virginia. ♀. July. v. v. Resembles the preceding; flowers smaller and paler in colour. In the mountain-meadows it grows, like the following, to a very great height, sometimes exceeding three and four feet.

24. *O. labello tripartito, laciniis cuneiformibus dentatis, intermedio bilobo, cornu filiformi apice clavato adscendente germine longiore.* *Willd. sp. pl. 4. p. 40.*

fissa.

In mountain meadows : Pennsylvania to Virginia. ♀. July, Aug. v. v. Resembles the preceding; flowers dark purple.

672. NEOTTIA. *Swartz. act. holm. 1800. p. 224.*

1. *N. foliis radicalibus linearibus, scapo vaginato, floribus spiraliter-secundis, labio trifido; medio majori crenulato.* —*Willd. sp. pl. 4. p. 74.*

tortilis.

Satyrion spirale. *Swartz. prodr. 118.*

Ophrys aestivalis. *Mich. fl. amer. 2. p. 157.*

Limodorum præcox. *Walt. fl. car. 221.*

In low spongy meadows : Pennsylvania to Carolina. ♀. June, July. v. v. From ten inches to a foot high; flowers white. This and the following species are known by the name of *Ladies' Traces*.

2. *N. foliis lanceolatis trinervibus, caule vaginato, spica oblonga densiflora, floribus recurvato-cernuis, labello oblongo integerrimo acuto.* —*Willd. sp. pl. 4. p. 75.*

cernua.

Ophrys cernua. *Sp. pl. 1340.*

Limodorum autumnale. *Walt. fl. car. 221.*

- In grassy and springy places : Canada to Carolina. ♀. July, Aug. v. v. Resembles the preceding, but the spikes are closer and the flowers double the size.

3. *N. foliis radicalibus ovatis petiolatis reticulatis, scapo vaginato floribusque pubescentibus, floribus secundis, labello petalique lanceolatis.* *Willd. sp. pl. 4. p. 76.*

repens

Satyrion repens. *Sp. pl. 1339.*

Icon. Jaeg. austr. 369. Hall. helv. t. 22. Com. hort. t. 35.

In rocky, shady pine-woods, on the high mountains of Virginia. $\frac{1}{2}$. July. v. v. Not above three inches high; stem creeping; leaves delicately veined; flowers white.

pubescens. 4. N. foliis radicalibus ovatis petiolatis reticulatis, scapo vaginato floribusque pubescentibus, labello ovato acuminate, petalis ovatis. Willd. sp. pl. 4. p. 76.

Satyrion repens. Mich. fl. amer. 2. p. 137.

In shady and rocky situations: Canada to Florida. $\frac{1}{2}$. July. v. v. Resembles the preceding; is more robust, and the leaves more distinctly and handsomely variegated with white veins. This plant has lately made a great noise among the country people, as infallibly curing the bite of a mad dog.

673. ARETHUSA. Swartz. act. holm. 1800. p. 230.

bulbosa.

1. A. aphylla; radice globosa, scapo vaginato unifloro, calyce laciniis superioribus incurvatis, labello subcrenulato.—Willd. sp. pl. 4. p. 80.

Icon. Lam. illustr. t. 729. f. 1. Pluk. mant. t. 348. f. 7.

In sphagnum swamps: Canada to Carolina. $\frac{1}{2}$. June. v. v. Flowers large, purple, sweet-scented.

ophioglossoides.

2. A. radice fibroso, scapo dissite bifoliato 1—2-floro, foliis ovali-lanceolatis, labello fimbriato.—Willd. sp. pl. 4. p. 80.

Icon. Lam. illustr. t. 729. f. 2.

In bogs and sphagnum swamps: Canada to Carolina. $\frac{1}{2}$. June, July. v. v. Flowers nearly the size of the preceding, purple, sometimes white.

divaricata.

3. A. radice subpalmata, scapo remote bifoliato unifloro, foliis oblongis obtusiusculis, petalis exterioribus adscendentibus longo-linearibus, labello eroso-subcrenulato.—Willd. sp. pl. 4. p. 81.

Icon. Lam. illustr. t. 729. f. 3. Catesb. car. 1. t. 58.

In swamps near the sea-coast: Virginia to Florida. $\frac{1}{2}$. July. v. v. Flowers larger than any of the preceding, purple.

pendula.

4. A. radice tuberosa, caule folioso summitate subtrifido, foliis ovatis alternis, floribus longo-pedunculatis alternis, labello integro.—Willd. sp. pl. 4. p. 82.

A. trianthophoros. Swartz. act. holm. 1800. p. 230.

A. parviflora. Mich. fl. amer. 2. p. 160.

Icon. *Pluk. mant. t. 348. f. 6.*

In shady woods, round the roots of beech-trees : New York to Kentucky. ♀. July. v. v. Not above three or four inches high ; flowers pale purple, small.

5. *A. foliis quinis oblongo-lanceolatis verticillatis, caule unifloro, petalis tribus exterioribus longissimis linearibus, interioribus lanceolatis, labello trilobo, lacinia media undulata. Willd. sp. pl. 4. p. 81.*

Icon. *Pluk. mant. t. 348. f. 1. bona.*

In shady woods, near the banks of rivulets : Pennsylvania to Virginia. ♀. July. v. v. A very scarce and handsome species ; flowers, the size and shape of *A. divaricata*, of a dull purple mixed with yellow. It has sometimes two or three flowers.

6. *A. foliis verticillatis oblongis acuminatis, caule unifloro, flore subsessili, petalis tribus exterioribus linearibus, interioribus brevioribus oblongis obtusis, labello petalis consimile.*

In shady woods on the Blue-mountains. *Vanvleck. 24. July. v. s. in Herb. Vanvleck.* Resembles the preceding in general habit.

674. EPIPACTIS. *Swartz. act. holm. 1800. p. 231.*

1. *E. foliis radicalibus ovatis acutis, scapo aphylo pubescente laxifloro, floribus pedicellatis, labello bilobo vix petalis conniventibus longiore, capsulis clavatis, radice palmato.*

Ophrys pubera. Mich. fl. amer. 2. p. 158.

Arethusa racemosa. Walt. fl. car. 222.

Serapias foliis ovatis radicalibus, scapo nudo multifloro. Gron. fl. virg. 137.

In pine-barrens of Carolina and Georgia. ♀. June. v. s. in *Herb. Gronov. et Walter.* Flowers small, greenish-white.

2. *E. caule bifolio, foliis oppositis cordato-subrotundis acutis, spica parviflora, labello oblongo apice dilatato obtuse bilobo, germine subgloboso, radice fibrosa.— Willd. sp. pl. 4. p. 88.*

Ophrys cordata. Mich. fl. amer. 2. p. 158.

In shady cedar-swamps and sphagnum woods : Canada to New Jersey ; rare. ♀. May. v. v. A very small plant ; flowers dark-brown, mixed with green.

verticillata.

medeoloides.

pubescens.

convallarioides.

675. MALAXIS. *Swartz. act. holm. 1800. p. 233.**ophioglossoides.*

1. M. folio solitario ovato-amplexicauli, scapo pentagono, labello apice bifido. *Willd. sp. pl. 4. p. 90.*

*M. unifolia. Mich. fl. amer. 2. p. 157.**In shady woods: Pennsylvania to Florida. U. May, June. v. v.**liliifolia.*

2. M. foliis binis ovato-lanceolatis, scapo triquetro, petalis interioribus filiformibus reflexis discoloribus, labello concavo obovato apice acuto.—*Willd. sp. pl. 4. p. 92.*

*Ophrys trifolia. Walt. fl. car. 221.**Ophrys scapo nudo, foliis radicalibus, &c. Gron. virg. p. 138.**Epipendrum caule erecto simplicissimo nudo, racemo simplici erecto. Gron. virg. p. 140.**Icon. Bot. rep. 65.**In shady wet woods, round the roots of trees: Canada to Virginia. U. June, July. v. v. The three outside petals are sharp-pointed, white; the two inside ones thread-shaped, yellowish, and reflex; the lower lip broad-obovate with an abrupt point of a pale olive colour.*676. CYMBIDIUM. *Swartz. nov. act. ups. 6. p. 70.**pulchellum.*

1. C. foliis radicalibus ensiformibus nervosis, scapo pauci-floro, labello erecto basi attenuato, lamina expansa, disco concavo barbato.—*Willd. sp. pl. 4. p. 105.*

*Limodorum tuberosum. Syst. veg. 680. Mich. fl. amer. 2. p. 159.**Limodorum pulchellum. Salisb. prodr. 8.**Ophrys barbata. Walt. fl. car. 221.**Icon. Bot. mag. 16.**In sphagnum swamps: Canada to Florida. U. July. v. v. Flowers purple, very handsome.**verecundum.*

2. C. foliis radicalibus fato-lanceolatis plicato-nervosis, scapo multifloro, petalis interioribus conniventibus, labello ventricoso, lamina emarginata crispa sulcata. *Willd. sp. pl. 4. p. 105.*

*Limodorum verecundum. Salisb. prodr. 9.**Limodorum tuberosum. Jacq. collect. 4. p. 108.**Limodorum altum. Jacq. ic. rar. 3. t. 602.**Limodorum trifidum. Mich. fl. amer. 2. p. 159.**Icon. Mart. cent. t. 50. Mill. ic. 145.*

In Carolina and Florida. ♀. July, Aug. v. v. Resembles the preceding, but is larger.

3. C. foliis radicalibus geminis ovatis multinervibus, scapo simplici vaginato erecto, petalis erectis, tribus exterioribus lanceolatis, interioribus oblongis, labello obovato margine undulato-crenato.—Willd. sp. pl. 4. p. 107.

hyemale.

Arethusa spicata. Walt. fl. car. 222.

On the side of fertile hills, under the shade of trees : Pennsylvania to Carolina. ♀. May. v. v. Flowers greenish-purple. It is known among the inhabitants by the name of *Adam and Eve*. The roots bruised, with a small addition of water, give a strong cement, which when applied to broken china and glass is exceedingly durable.

4. C. scapo vaginato aphyillo, floribus pedicellatis, petalis lanceolatis æqualibus, labello ovato obtuso. Willd. sp. pl. 4. p. 110.

Odontorhi-
zon.

Ophrys corallorbiza. Mich. fl. amer. 2. p. 158.

Icon. Pluk. alm. t. 211. f. 1 ♂ 2.

In shady woods, about the roots of trees : Canada to Virginia. Flowers small, dark purple mixed with yellow.

677. CALYPSO. Salisb. in parad. lond. t. 89.

1. C. folio radicali unico subrotundo-ovato nervoso, capo unifloro vaginato.—Salisb. l. c.

borealis.

Limodorum boreale. Willd. sp. pl. 123.

Cypripedium bulbosum. Sp. pl. 1347.

Cymbidium boreale. Swartz. nov. act. ups. 6. p. 76.

Icon. Parad. lond. 89. Smith spicil. t. 11. Gmel. fl. sib. 1. t. 2. f. 5.

In Nova Scotia. Menzies. On the Columbia river.

M. Lewis. ♀. May, June. v. s. in Herb. Lewis.

Flower large, purplish rose-coloured ; the lower lip, resembling *Cypripedium*.

II. DIANDRIA.

678. CYPRIPEDIUM. *Swartz. act. halm.* 1800, p. 250.

- candidum.* 1. C. caule folioso, foliis oblongo-lanceolatis, lobo styli lanceolato obtusiusculo, labello petalis lanceolatis breviore compresso.—*Willd. sp. pl. 4. p. 142.*
In Pennsylvania. *Muhlenberg.* 4. +. Resembles *C. Calceolus*; but the flowers are white, and not half the size: the form of the leaves and lobe of the style distinguish it sufficiently.
- parviflorum.* 2. C. caule folioso, lobo styli triangulare acuto, petalis exterioribus ovato-oblongis acuminatis, interioribus linearibus contortis, labello petalis breviore compresso.
Willd. sp. pl. 4. p. 143.
C. Calceolus. *Mich. fl. amer. 2. p. 161.*
Icon. *Salisb. in linn. trans. 1. p. 77. t. 2. f. 2.* *Pluk. mant. t. 418. f. 2.*
In shady fertile woods: New Jersey to Carolina. 4. May, June. v. v. Petals greenish-brown; lower lip yellow, with brown spots.
- pubescens.* 3. C. caule folioso, lobo styli triangulare-oblongo obtuso, petalis exterioribus ovato-oblongis acuminatis, interioribus longissimis linearibus contortis, labello petalis breviore compresso. *Willd. sp. pl. 4. p. 143.*
~~C. flavescentia.~~ *Redout. pl. liliac.*
C. Calceolus. *Sp. pl. 1346.*
Icon. *Willd. hort. berol. 1. t. 13.* *Moris. hist. 3. s. 12. t. 11. f. 15.*
C. Calceolus. *Walt. fl. car. 222.*
On sunny fertile hills, among small trees and bushes, generally in rocky situations: Pennsylvania to Carolina. 4. May. v. v. Petals greenish-yellow with red spots; lower lip yellow. It approaches near to the preceding. Sometimes it is found with two or three flowers.
- spectabile.* 4. C. caule folioso, lobo styli elliptico-cordato obtuso, petalis exterioribus lato-ovalibus obtusis, labello petalis longiore antice fisso.—*Willd. sp. pl. 4. p. 143.*
C. album. *Ait. kew. 3. p. 303.*
C. canadense. *Mich. fl. amer. 2. p. 161.*
C. reginæ. *Walt. fl. car. 222.*

C. Calceolus γ. Sp. pl. 1346.

Icon. Bot. mag. 216. Pluk. mant. t. 418. f. 3. Moris. hist. 3. t. 12. t. 11. f. 17.

In low meadows and bogs, particularly in the mountainous tracts: Canada to Carolina. ♀. May, June. v. v. From eighteen inches to three feet high. The plant in its foliage resembles *Helleborus viridis*; the flowers are generally by two, sometimes three, very large, the lower lip white with red veins, and crimson spots inside.

6. C. caule folioso, lobo styli orbiculato obtusiusculo, petalis 5. duobus inferioribus linear-lanceolatis deflexis, lateralibus linearibus horizontalibus, supremo ovato-oblongo adhuc, labello longitudine petalorum antice obverse-conico saccato.—Ait. hew. ed. 2. tom. 5. p.

In shady sphagnous woods, about Montreal, Canada. M'Kenzie. ♀. May. v. v. Flower small, petals greenish-brown; lower lip white, with crimson veins; of a very singular structure, resembling at a front view a sheep's head, the two lateral petals forming the horns. The stem is pubescent, not a span high; leaves smooth, in general alternately by four. It distinguishes itself very strongly from all the rest by having five petals, and by the singular structure of its lower lip.

6. C. scapo aphylo unifloro, foliis radicalibus geminis oblongis obtusis, lobo styli subrotundo-rhombeo acuminate deflexo, labello petalis lanceolatis longiore antice fiso. Willd. sp. pl. 4. p. 144.

C. acaule. Ait. hew. 3. p. 161.

Icon. Bot. mag. 192. Salisb. in linn. trans. 1. t. 3. f. 4. Catesb. aer. app. t. 3. Pluk. mant. t. 418. f. 1.

In shady rocky situations and on dry mountain bogs: Canada to Carolina. ♀. May, June. v. v. Not much above a span high; flower purple, large. I have observed a white variety on the Broad-mountains, Pennsylvania. The whole of this genus is known among the inhabitants by the name of *Mocassin Flower*, or sometimes *Ladies Slippers*.

Arietinum.

humile.

III. HEXANDRIA.

679. ARISTOLOCHIA. Gen. pl. 1383.

Sipho.

1. *A. foliis cordatis acutis, caule volubili, pedunculis unifloris bractea ovata instructis, corollis adscendentibus, limbo trifido æquali.* Willd. sp. pl. 4. p. 155.

A. macrophylla. Lam. encycl. 1. p. 252.

Icon. Bot. mag. 534. *L'Herit. stirp. t. 7.*

On the mountains: Pennsylvania to Carolina. $\frac{1}{2}$. June.
v. v. A very high running vine; leaves large, and well calculated to form shady bowers; flowers very singular in structure, yellowish-brown; the leaves are more or less pubescent.

Serpentaria.

2. *A. foliis cordatis oblongis acuminatis, caule flexuoso adscendente, pedunculis radicalibus, corollæ labio lanceolato.* Willd. sp. pl. 4. p. 159.

In shady woods, on fertile soil: New England to Carolina; principally throughout the mountains. $\frac{1}{2}$. May, June. *v. v.* This is the famous *Virginia Snake-root*, so very highly and, I think, deservedly esteemed by the Indians and white inhabitants of America. I have seen a very narrow and long-leaved variety of it, which, if there were any difference in the flowers, might claim to be a distinct species.

IV. DODECANDRIA.

680. ASARUM. Gen. pl. 801.

canadense.

1. *A. foliis lato-reniformibus germinatis, calyce lanato profunde tripartito, lacinia sublanceolatis reflexis.*—
Mich. fl. amer. 1. p. 279. Willd. sp. pl. 2. p. 838.

A. carolinianum. Walt. fl. can. 143.

A. latifolium. Salisb. prodr. 644.

Icon. Moris. hist. 3. s. 13. t. 7. f. 4. *Corn. canad.* t. 25.

In shady rocky situations: Canada to Carolina. $\frac{1}{2}$. April. *v. v.* The root is highly aromatic, and known by the inhabitants under the name of *Wild Ginger*. It is said to be made use of by the Indian females to prevent impregnation.

2. A. foliis solitariis rotundato-cordatis glabris coriaceis, flore subeossili, calyce extus glabro breviter campanulato.—*Mich. fl. amer.* 1. p. 279. *Willd. sp. pl.* 2. p. 838.
In shady rocky woods: Virginia and Carolina. $\frac{1}{4}$. May.
v. v. Leaves white speckled, very smooth. *virginicum.*
3. A. foliis subhastato-cordatis coriaceis, calyce tubuloso infra limbum brevissimo trifidum coarctato. *Mich. fl. amer.* 1. p. 279.
A. virginicum. *Walt. fl. car.* 143.
In shady woods of Lower Carolina. $\frac{1}{4}$. May. *v. v.*
Leaves speckled. *arifolium.*

XIX. DICLINIA.

I. SEGREGATÆ.

* Uniloculares.

681. VALISNERIA. *Dioica*. *Masc.* *Spatha* 2-partita.
Spadix conicus tectus flosculis. *Cal.* 3-partitus.
Stam. 2. *Fem.* *Spatha* tubulosa, 2-fida, 1-flora.
Cal. superus, longissimus, limbo 6-partito, lacinias
alternis linearibus. *Stigmata* 3. semibifida. *Caps.*
cylindrica, 1-locularis, polysperma.
682. NAJAS. *Monoica*. *Masc.* *Cal.* cylindricus, 2-fidus.
Stamen 1. filamento longo, anthera 4-valvi : valvis
patentibus. *Fem.* *Cal.* 0. *Styl.* 1. *Stigm.* 2. *Nux*
4-sperma.
683. DIOTIS. *Monoica*. *Masc.* *Cal.* 4-phyllus. *Stam.* 4.
Fem. *Cal.* 1-phyllus, bicornis. *Stylus* 2-partitus.
Sem. 1. villosum, calyce bicorni tectum.
- ** *Tricoccæ*; *Capsula* 3-locularis, 3-sperma. *Stamina*
monadelpha. *Monoica*.
684. RICINUS. *Masc.* *Cal.* 5-partitus. *Stam.* numerosa.
Fem. *Cal.* 3-partitus. *Styls* 3. bifidi. *Caps.* echinata.
685. JATROPHA. *Masc.* *Cor.* 1-petala, infundibuliformis.
Stam. 10. alterna breviora. *Fem.* *Cor.* 5-petala, patens. *Styls* 3. bifidi.
686. CROTON. *Masc.* *Cal.* cylindricus, 5-dentatus. *Cor.*
5-petala, aut 0. *Stam.* 10—15. *Fem.* *Cal.* polyphyllus. *Cor.* 0. *Styls* 3. bifidi.
687. ACALYPHA. *Cal.* 3—4-partitus, 1-bracteatus. *Masc.*
Bractea squamiformis. *Stam.* 8—16. *Fem.* *Bractea*
magna cordata involucriformis. *Styls* 3. bifidi.
688. TRAGIA. *Masc.* *Cal.* 3-partitus. *Stam.* 3. subsessilia. *Fem.* *Cal.* 5-partitus. *Stylus* 3-fidus.

690. EUPHORBIA. *Involucrum commune calyciforme, limbo extrosum appendicibus petaloideis, plerumque 5.; introrsum lacinulis totidem alternis et denticulatis. Masc. tot quot lacinulae. Cal. polyphyllus: foliolis pinnatum laciiniatis. Stam. 4-5. aut plura. Flos fem. centralis, nudus, solitarius, stipitatus, Styl. 3. bifidi.*
690. STİLLİNGIA. *Involucrum coriaceum, urceolatum, in masculis multiflorum, 1-florum in femineis. Cal. tubulosus, infundibuliformis, limbo ciliato. Masc. Stam. 2. exerta, basi coalita. Fem. Stylus filiformis. Stigm. 3.*

II. AMENTACEÆ.

* Flores dioici.

691. SALIX. *Amenta cylindracea, imbricata: squamis 1-floris. Cal. O. Masc. Glandula baseos nectarifera. Stam. 1—6. interdum monadelpha. Fem. Styl. bifidus. Caps. 1-locularis, 2-valvis, polysperma. Sem. papposa.*
692. POPULUS. *Amenta cylindracea, laxe imbricata: squamis margine laceris, 1-floris. Cal. urceolatus, integer. Masc. Stam. 8. exerta. Fem. Stigma 4-fidum. Caps. 2-locularis, 2-valvis, polysperma. Sem. papposa.*
693. MYRICA. *Amenta ovata, imbricata: squamis lunatis, triflora. Cal. O. Masc. Squama 4-andra, radius 6-andra. Fem. Styl. 2. Drupa 1-sperma.*

** Flores monoici.

694. BETULA. *Amenta imbricata: squamis peltatis, 3-floris, 3-fidis. Masc. Cal. 4-partitus. Stam. 10—12. Fem. Squama 2-flora. Cal. O. Stigm. 2. Sem. 1. utrinque membrana alatum.*
695. ALNUS. *Amentum receptaculis cuneiformibus truncatis 3-floris compositum. Masc. Cal. 4-partitus. Stam. 4. Fem. squama biflora. Cal. O. Stigm. 2. Sem. 1. compressum, ovatum, apterum.*
696. CARPINUS. *Amenta laxe imbricata: squamis 1-floris. Cal. O. Masc. Squama ovata, ciliata. Stam. 6—10. Antheræ apice villosæ. Fem. Squama lanceolata, ciliata, biflora. Germen apice denticulatum. Stigm. 2. Nux ovata, sulcata.*

697. OSTRYA. *Masc. Amenta imbricata. Cal. squamis. Fil. ramosa. Fem. Amentum nudum. Caps. inflatae, imbricatae, basi monoopermæ.*
698. FAGUS. *Masc. Amentum subrotundum. Cal. 5-fidus, campanulatus. Stam. 8—12. Fem. Cal. 4-dentatus, setosus. Germ. 2. Nuces 2. calyce echinato, coriaceo, 4-fido inclusæ.*
699. CASTANEA. *Masc. Amentum nudum, lineare. Cal. sub-6-phyllo. Stam. 5—20. Fem. Cal. 5-6-phyllo, muricatus. Germ. 3. Stigm. penicilliformia. Nuces 3. calyce echinato inclusæ.*
700. QUERCUS. *Masc. Amentum nudum, lineare. Cal. sub-5-fidus. Stam. 4—10. Fem. Cal. plerumque 6-dentatus, scaber. Styli 2—5. Nux coriacea, calyce persistente basi cincta.*
701. CORYLUS. *Masc. Amentum imbricatum : squamis 3-fidis unifloris. Cal. 0. Stam. 8. Fem. Cal. bipartitus, lacerus. Styli 2. Nux ovata, calyce persistente cincta.*
702. LIQUIDAMBAR. *Masc. Amentum conicum, involucro 4-phyllo cinctum. Filam. numerosa. Fem. Amentum globosum, involucro 4-phyllo cinctum. Cal. urceolatus, biflorus. Styli 2. Caps. 2. basi cinctæ, 2-valves, polyspermæ.*
703. COMPTONIA. *Masc. Amentum cylindricum, laximbricatum ; squamis 1-floris. Cal. 2-phyllo. Filam. 3, bifurcata. Fem. Amentum ovatum. Cal. 6-phyllo. Styli 2. Nux ovata, 1-loocularis.*
704. PLATANUS. *Amentum globosum. Masc. Cor. vix manifesta. Antheræ filamentum circumnatæ. Fem. Cor. polypetala. Styli stigmata recurvo. Sem. subrotunda, stylo mucronata, basi papposæ.*
705. JUGLANS. *Masc. Amentum imbricatum. Cal. 6-partitus. Filam. 4—18. Fem. Cal. 4-fidus, superus. Cor. 4-partita. Styli 2. Drupa coriacea, nuce sulcata.*
706. MORUS. *Amentum subglobosum. Masc. Cal. 4-partitus. Filam. 4. Fem. Cal. 4-phyllo. Styli 2. Cal. baccatus. Sem. 1.*

III. CONIFERÆ.

* Flores monoici.

707. PINUS. *Masc. Amentum imbricatum. Cal. 4-phyl-lus. Stam. plurima. Anth. nudæ. Fem. Cal. stro-bili s. coni: squama biflora. Pistill. 1. Nux ala membranacea excepta.*
708. CUPRESSUS. *Masc. Amentum ovatum, imbricatum: squamis (20) oppositis, apice peltatis, basi 4-andris. Anth. sessiles. Fem. Conus subrotundus: squamis (8—10) oppositis, peltatis. Germina sub singulis plurima minima serie simplici. Styl. O. Stigm. cylindricum, fistulosum. Nux angulosa 1-sperma.*
709. THUYA. *Masc. Amentum ovatum: squamis 6. trino ordine oppositis, apice obtusis, basi 4-andris; Anth. substipitatae. Fem. Conus subovatus: squamis ob-longis apice incrassatis, longitudinaliter conniventibus. Germina 2. Styl. brevissimus. Stigm. con-cavum. Caps. 1-spermæ, margine alato.*

** Flores dioici.

710. JUNIPERUS. *Amenta ovata: squamis stipitato-peltatæ. Masc. Squamæ ternatum verticillatae, sti-pite 2—3—4-antherifero. Fem. Squamæ pauciores, cruciatim oppositæ. Germ. 1. Styl. O. Stigm. tu-bulosum. Fructus bacciformis, carnosus. Nux 1-loocularis.*
711. TAXUS. *Gemma polyphylla, opposite-imbricata. Cal. O. Masc. Antheræ peltatae, 8-fidæ. Fem. Germ. 1. Styl. O. Stigm. 1. Receptaculum cupu-læforme, nuce ovata, nuda.*
712. ZAMIA. *Amentum strobiliforme. Masc. Squama obovata. Cal. O. Antheræ plures, globosæ, rima dehiscentes, in squama sessiles. Fem. Squamæ pel-tatæ. Germ. 2. Styl. O. Baccæ 2. 7-spermæ.*

I. SEGREGATÆ.

681. VALLISNERIA. *Gen. pl. 1401.*

- americana.* 1. *V. foliis linearibus, pedunculis masculis feminineisque rectis.* *Willd. sp. pl. 4. p. 651.* *Mich. fl. amer. 2. p. 220.*

At the bottom of muddy and slow-flowing rivers: Mississippi and St. John's, Florida. *Michaux.* In Oswego river, New York; Delaware, Pennsylvania, and James's and Greenbriar rivers, Virginia. *Ph.* ♀. ♂ ? Aug. Oct. v. v. This most interesting and singular plant I observed in the Delaware, near Philadelphia, in 1800; which discovery I communicated, accompanied with a drawing and description, to Dr. B. S. Barton, of Philadelphia. The œconomy of its fecundation is highly interesting to the young student of the sexual system. Michaux and Willdenow consider it as specifically distinct from *V. spiralis*; but I have always considered it only a local variety, as the peduncles of the female flowers are in deep water really spiral.

682. NAJAS. *Willd. act. acad. berol. 1798, p. 85.*

- canadensis.* 1. *N. pusilla, filiformis, laevis; foliis angustissime linearibus.* *Mich. fl. amer. 2. p. 220.*
In lakes: Canada, on Lake St. John's. *Michaux.* +.

683. DIOTIS. *Gen. pl. 1423.*

- lanata.* 1. *D. omnibus partibus cano-tomentosa; caule flexuoso, glomerulis spicarum confertissimis.*
On the banks of the Missouri, in open prairies. *M. Lewis.* h. Aug. Sept. v. s. in *Herb. Lewis.* Resembles *Diotis ceratoides*, but is distinct at first sight by its long woolly tomentum.

684. RICINUS. *Gen. pl. 1464.*

- communis.* 1. *R. foliis peltatis palmatis, lobis lanceolatis serratis, caule herbaceo pruinoso, stigmatibus tribus apice bifidis, capsulis echinatis.* *Willd. sp. pl. 4. p. 564.*
Icon. *Blackw. t. 148.*

In cultivated grounds, frequent in old plantations in Virginia and Carolina. ♂. Aug. Sept. v. v. Introduced by the Negroes. Known by the name of *Castor-oil Bean*.

685. JATROPHA. *Gen. pl.* 1463.

1. *J. herbacea*, *stimulis' patulis horridissima*; *foliis subpalmato-lobatis*, *lobis obtusiusculis subsinuato-incisis*, *cymis brevi-pedunculatis*. *Mich. fl. amer.* 2. p. 216.

J. urens. *Walt. fl. car.* 239.

Icon. *Plak. alm. t.* 220. f. 3. *Marcg. brass.* 79. f. 2.

In fields and plantations: Virginia to Florida. ♀. July, Aug. v. v. Flowers white; roots tuberous and eatable, the same as *J. Manihot*, which is so generally cultivated in the West Indies under the name of *Cassuda*. The present plant is a very injurious weed in some parts of Carolina, as it ruins the Negroes' feet when they tread upon it; from which it is known by the name of *Tread-softly*.

686. CROTON. *Gen. pl.* 1462.

1. *C. foliis ellipticis integerrimis obtusiusculis incanis subtus tomentosis petiolatis*, *spicis terminalibus paucifloris*. *Willd. sp. pl.* 4. p. 532. *Walt. fl. car.* 239.

C. disjunctiflorum. *Mich. fl. amer.* 2. p. 214.

- β. *C. spicis dichotomalibus*, *flore femineo unico pedicellato*. *monanthogynum*. *Mich. fl. amer.* 2. p. 215.

On the sea-coast of Carolina; β. in Tennessee, near Nashville. ♀. June, July. v. s. The flowers of this genus are small and inconspicuous. The branches sometimes live over winter, but it cannot be considered a real shrub. Most of the species here mentioned are covered with stellated hairs.

2. *C. suffruticosum*, *stellato-tomentosum*; *foliis oblongis integerrimis subtus tomentosis petiolatis*, *pedunculis terminalibus subbifloris*.—*Willd. sp. pl.* 4. p. 535.

C. punctatum. *Jacq. ic. rar.* 3. t. 621.

In sterile woods of Georgia and Florida. ♀. July, Aug. v. s.

3. *C. hispidissimum*; *foliis oblongis serratis subtus hirtis glandulosum*, *basi subintegerrimis biglandulosis*, *caule trichotomo*, *spicis alaribus*, *capsulis glomeratim sessilibus*.—*Willd. sp. pl.* 4. p. 540.

C. scordioides. *Lam. encycl.* 2. p. 214.

Icon. *Jacq. ic. rar. 1. t. 194.*

On the sea-coast of Carolina and Florida. ⊖. July,
Aug. v. v.

capitatum.

4. C. tomentoso-lanatum; foliis oblongo-ovalibus obtusis
basi rotundatis integris, utrinque tomentosis, floribus
femineis ad basin spicillæ marium capitatum congestis.
—*Mich. fl. amer. 2. p. 214.*

In the Illinois country. *Michaux.* ⊖. +. Resem-
bles *C. argenteum.*

687. ACALYPHA. *Gen. pl. 1461.*

virginica.

1. A. floribus femineis ad basin spicæ masculæ, involucris
ovatis acuminatis dentatis, foliis breviter petiolatis ob-
longo-lanceolatis remote obtuse-serratis.—*Willd. sp.*
pl. 4. p. 521.

Icon. *Pluk. phyt. t. 99. f. 4.*

In fields, cultivated grounds, and on road sides: Canada
to Virginia. ⊖. June—Aug. v. v.

caroliniana.

2. A. floribus femineis ad basin spicæ masculæ, involucris
cordatis dentatis, foliis longe petiolatis subrhomboid-
ovatis serratis basi integerimis.—*Willd. sp. pl. 4.*
p. 521. Walt. fl. car. 238.

In cultivated grounds: Virginia to Florida. ⊖. July,
Aug. v. v.

688. TRAGIA. *Gen. pl. 1410.*

utrens.

1. T. erecta; foliis lanceolatis sessilibus obtusis apice sub-
dentatis, cauleque ramoso pubescentibus. *Willd. sp.*
pl. 4. p. 325.

subovalis.

α. T. foliis oblongo-ovalibus nonnullis subcuneatis. *Mich.*
fl. amer. 2. p. 175.

Icon. *Pluk. alm. t. 107. f. 5.*

lanceolata.

β. T. foliis lanceolatis subdentatis integrisque. *Mich. l. c.*
T. innocua. *Walt. fl. car. 229.*

linearis.

γ. T. foliis linearibus fere omnibus integris. *Mich. l. c.*
In waste places, on road sides and cultivated grounds:
Virginia to Carolina. ⊖. June—Aug. v. v.

urticifolia.

2. T. erecta, caule hirsutissimo, foliis cordatis ovatis ser-
ratis.—*Willd. sp. pl. 4. p. 324.*

T. mercurialis. *Walt. fl. car. 229.*

In fields: Virginia to Georgia. ⊖. July. v. s. in *Herb.*
Lyon.

3. *T. scandens*, hispida ; foliis profunde cordatis ovatis acute *macrocarpa*.
dentatis.—*Willd. sp. pl. 4. p. 323.*

In Kentucky. *Michaux.* ♂. July. v. s. in Herb.
Lyon.

689. EUPHORBIA. *Gen. pl. 823.*

* *Floribus fasciculato-terminalibus.*

1. *E. fruticescens* ; foliis petiolatis ovatis subdentatis pandu- *cyathophora*.
riformibus, summis involucellisque coloratis, floribus
subumbellatis.—*Willd. sp. pl. 2. p. 891.*

E. heterophylla. Jacq. collect. 1. p. 157.

Icon. Jacq. ic. rar. 3. t. 480. Murr. comm. genet. 7.
p. 81. t. 1.

On the banks of the Mississippi, and in Georgia and Florida. ♀. ♂. June, July. v. v. About three feet high ; upper leaves and involucres painted deep red.

2. *E. pumila*, *hirsuta* ; foliis oppositis ovalibus dentatis,
flores ad summitates congestis. *Mich. fl. amer. 2.* *dentata.*
p. 211.

In shady rocky situations : Pennsylvania to Tennessee. ♂.
July, Aug. v. v. The upper leaves spotted.

3. *E. pusilla*, *erecta*, *ramosa*, *pubescens* ; foliis sparsis line- *graminifolia*.
aribus integerrimis, supremis basi discoloribus.—*Mich.*
fl. amer. 2. p. 210.

On the sea-coast of Georgia and Florida. *Michaux.* +.
Resembles *E. hyssopifolia*.

** *Dichotoma*. (Umbella bifida aut nulla.)

4. *E. glabra*, *ramosissima*, *patulo-erecta* ; ramis divaricatis, *hypericifolia*.
foliis oppositis serratis ovali-oblongis subfalcatis
corymbis terminalibus.—*Willd. sp. pl. 2. p. 895.*

Icon. Comm. prael. 60. t. 10. Rob. ic. 11. Sloan. hist.
jam. 1. t. 126.

On the banks of rivers and in cultivated sandy grounds :
Canada to Florida. ♂. June—Sept. v. v.

5. *E. erecto-patula* ; foliis oppositis serratis oblongis pilosis,
floribus axillaribus solitariis, appendicibus calycinis
coloratis.—*Willd. sp. pl. 2. p. 896.* *maculata.*

Icon. Jacq. hort. viud. t. 186. Pluk. alm. t. 65. f. 8.

In cultivated grounds : Pennsylvania to Carolina. ♂.
July—Sept. v. v. Leaves marked with a brown spot.
The involucrum of the florets white.

- thyrsifolia*. 6. *E. humifusa*, gracilis, pubescens; foliis oppositis ovalioblongis obtusis superne subserratis, capitulis axillariibus glomeratis subsessilibus.—*Willd. sp. pl. 2. p. 898.*
Icon. *Pluk. alm. t. 113. f. 2.* *Burm. zeyl. t. 105. f. 3.*
On the banks of the Ohio and Mississippi. ♂. June—
Aug. v. v.
- polygonifolia*. 7. *E. glaberrima*, diffusa; foliis oppositis integerrimis linear-lanceolatis obtusis, floribus solitariis axillaribus.—*Willd. sp. pl. 2. p. 900.*
Icon. *Jacq. collect. suppl. t. 13. f. 3.*
In cultivated grounds: Canada to Virginia. ♀. June—
Sept. v. v.
- Ipecacuanhae*. 8. *E. procumbens*, pumila, glabra; foliis oppositis obovalibus seu lanceolatis, pedunculis axillaribus unifloris elongatis.—*Willd. sp. pl. 2. p. 900.*
Icon. *Bat. mag. 1494.*
In pine-barrens: New Jersey to Carolina. ♀. June,
July. v. v. This humble species has perhaps the
deepest root of any perennial I know; I frequently
have dug to the depth of more than six feet, and was
by appearance as far off from its end as ever.
- portulacoides*. 9. *E. erecta*; foliis integerrimis ovalibus retinis, pedunculis axillaribus unifloris folia sequantibus.—*Willd. sp. pl. 2. p. 901.*
In sandy soil, and cultivated grounds: Pennsylvania. ♀.
June—Aug. v. v.
- pubentissima*. 10. *E. erecta*; caule calycibasque pubescentibus, foliis oppositis sessilibus subcordato-ovalibus obtusis, pedunculis solitariis capillaribus unifloris, appendicibus calycinis coloratis petaloideis. *Mich. fl. amer. 2. p. 212.*
In Carolina. *Michaux. 2. +*
- *** *Umbellatae*; *involutatae*.
- Peplos*. 11. *E. umbella* 3-fida: dichotoma, involucellis ovatis, foliis integerrimis obovatis petiolatis. *Willd. sp. pl. 2. p. 903.*
Icon. *Engl. bot. 959.*
In cultivated grounds: Pennsylvania and Virginia. ♂.
July, Aug. v. v.
- obtusata*. 12. *E. umbellata* 3-fida: bis dichotoma, involucellis ovatis obtusiusculis subcordatis, foliis alternis sessilibus spathulatis involucellisque serrulatis glabris, capsulis muricatis.

- In cultivated grounds : Virginia, near Staunton. ♀.
July, Aug. v. v. Resembles *E. spathulata*.
13. *E. caulinis gracile-debilibus, simpliciter 3-fidis, foliis mercurialina.*
oppositis ternis subsessilibus ovalibus integris, pedunculis terminalibus solitariis unifloris.—*Mich. fl. amer. 2. p. 212.*
- In shady rocky situations : Pennsylvania and Kentucky.
♀. July, Aug. v. v. Resembles in aspect *Mercularia annua*.
14. *E. umbella 3-fida : bis dichotoma, involucro foliiforme,* marginata.
involucellis oblongis cordatis margine membranaceis coloratis, foliis lanceolato-oblongis subcordato-amplexicaulibus acutis glaucescentibus glabris, appendicibus calycinis petaloideis subrotundis, capsulis pilosis.
- On the Yellow-stone river. *M. Lewis.* ♂. July. v. s. in *Herb. Lewis.* A very handsome species; the white margin of the involucre and white petal-like appendices have a fine contrast with the elegant soft green leaves.
15. *E. umbella 4-fida : dichotoma, foliis oppositis lanceolatis integerrimis.* Willd. sp. pl. 2. p. 906.
Icon. *Blackw. t. 123.* Lathyris.
- Not native, but frequently found near gardens and in cultivated ground. ♂. July, Aug. v. v. It is generally known in America by the name of *Mole-plant*, it being supposed that no moles disturb the ground where this plant grows.
16. *E. umbella 5-fida : 3-fida : dichotoma ; involucellis foliisque oblongis obtusis, appendicibus calycinis petaloideis obovatis.*—Willd. sp. pl. 2. p. 916. corollata.
Icon. *Pluk. mant. t. 446. f. 3.*
- In dry fields : Canada to Carolina. ♀. July, Aug. v. v.
It is very variable in its foliage: sometimes the leaves are quite linear.
17. *E. umbella 5-fida: trifida : bifida, involucris ovatis,* pilosa.
petalis integris, foliis lanceolatis subpilosis apice serrulatis. Willd. sp. pl. 2. p. 917.
Icon. *Gmel. sib. 2. t. 93.*
- In shady wet woods, in the mountains of Maryland and Virginia. ♀. June, July. v. v. From two to four feet high.

690. STILLINGIA. Gen. pl. 1470.

- sylvatica.* 1. S. herbacea ; foliis sessilibus oblongis obtusis basi attenuatis serrulatis, flosculis masculis squamam floralem vix superantibus.—*Willd. sp. pl. 4. p. 588.*
In pine-barrens : Virginia to Florida. ♀. May, June.
v. v. Flowers yellow, in a spike, resembling a catkin.
- ligustrina.* 2. S. fruticosa ; foliis petiolatis ovali-lanceolatis utrinque attenuatis integerrimis, flosculis masculis brevissime pedicellatis.—*Willd. sp. pl. 4. p. 588.*
In shady woods : Carolina and Georgia. ♂. June, July.
v. v.
- sebifera.* 3. S. arborea ; foliis petiolatis rhomboides acuminatis integerrimis, infra basin glandula petiolari, floribus masculis pedicellatis.—*Willd. sp. pl. 4. p. 588.*
Croton sebiferum. Sp. pl. 1425.
Icon. *Pet. gaz. t. 54. f. 3.* *Pluk. amalh. t. 390. f. 2.*
On the sea-coast of South Carolina ; originally a native of China. ♂. July, Aug. v. v. Known by the name of *Tallow Tree.*

II. AMENACEAE.

691. SALIX. Gen. pl. 1493.

- * *Foliis integerrimis aut obsolete serratis ; vernatio revoluta.*
- viminalis.* 1. S. foliis lanceolato-linearibus longissimis acuminatis integerrimis subundulatis subtus sericeo-argenteis, versus marginem sparse-glandulosis, stipulis exiguis, amentis præcoccibus, squamis subrotundis pilosissimis, germinibus sessilibus ovatis, stylo filiformi, stigmatibus acutis indivisis.—*Willd. sp. pl. 4. p. 706.*
Icon. *Hoffm. salic. 1. t. 2. f. 1. & 2. t. 5. f. 2. t. 21. f. e. f. g.*
On the banks of rivers and about plantations ; introduced from Europe. ♂. April, May. v. v. Filaments yellow, anthers orange.
- candida.* 2. S. foliis linear-lanceolatis longissimis apice obsolete denticulatis supra pubescentibus subtrus niveo-tomentosis margine revolutis, stipulis lanceolatis petiolatum sube-

quantibus, amentis præcocibus cylindraceis, squamis obovato-lanceolatis longissime villosis.—*Willd. sp. pl. 4. p. 708.*

In dry shady woods: New York to Pennsylvania. $\text{h. April, May. v. v.}$ The native place of this willow is not mentioned by Willdenow; but a plant in the collection of G. Anderson, Esq. which was found among a promiscuous collection of willows made by me on the Catskill mountains, New York, decides the question. To this gentleman's acute observations I am indebted for the present division of *Salices "vernatio revoluta,"* as likewise for the greater part of the present arrangement of American willows.

3. *S. foliis lanceolatis acutiusculis subintegerrimis pubescenti-canis, subtus rugoso-venosis, margine revolutis, stipulis deciduis lanceolatis, amentis præcocibus diandris, squamis oblongis margine villosis, germiniibus ova-to-lanceolatis sericeo-villosis longe pedicellatis, stylo brevi, stigmatibus bifidis.—Willd. sp. pl. 4. p. 692.*

S. tristis. Muhlb. in annals of bot. 2. p. 68. t. 5. f. 9.

S. alpina. Walt. fl. car. 243.

S. flava. Schæpf. nat. med. amer.

In shady dry woods: New York to Virginia. h. April. v. v. From three to five feet high; branches greenish-yellow, with black dots; the anthers are purple, changing to yellow when burst; scales white with a red tip, which gives the catkins a very pleasing appearance. In this and the following species I have not been able to ascertain whether the vernatio is revolute; but their natural affinity to the preceding ones strongly indicates that they are so.

4. *S. foliis linear-lanceolatis utrinque acutis integerrimis margine revolutis supra glabriusculis subtus rugoso-venosis tormentosis, stipulis nullis, amentis præcocibus oblongis.—Willd. sp. pl. 4. p. 693.*

In dry sandy woods: New Jersey to Carolina. $\text{h. March, April. v. v.; v. s. in Herb. Banks.}$ Approaches near to the preceding.

5. *S. foliis obovato-lanceolatis acutis integerrimis margine glandulosis glabris subtus glaucis, junioribus sericeis, stipulis nullis, amentis præcocibus recurvatis, squamis apice nigris, pilis longitudine germinis, germiniibus ovatis brevi-pedicellatis sericeis, stylo brevissimo, stigmatibus bifidis.*

Muhlenber-giana.

tristis.

recurvata.

In shady woods, in the mountains of New Jersey and Pennsylvania. ♀. April. v. v. A low shrub; branches brown, smooth; buds yellow.

** *Foliis integerrimis aut obsolete serratis; vernatio equitans.*

† *Caule repente, depresso aut diffuso.*

repens.

6. *S. repens*; foliis elliptico-lanceolatis integerrimis acutis glabris subtus subsericeis, stipulis nullis, amentis præcocibus ovatis diandris, squamis obovatis obtusis pilosis apice fuscis, germinibus ovato-oblongis pedicellatis pubescentibus, stylo brevissimo, stigmatibus bilobis, capulii glabriæ.—*Willd. sp. pl. 4. p. 693.*

S. depressa. Hoffm. salic. t. 1. t. 15 & 16.

S. polymorpha. Ehrh. frut. 49.

In Nova Scotia and Newfoundland. ♀. May. v. s. in *Herb. Banks.* A very small creeping species.

reticulata.

7. *S. repens*; foliis elliptico-orbiculatis obtusis integerrimis glabris reticulato-venosis subtus glaucis, stipulis nullis, amentis serotinis pedunculatis diandris, squamis obovatis obtusis pubescentibus, germinibus ovatis sessilibus villosis, stigmatibus subcescilibus bipartitis.—*Willd. sp. pl. 4. p. 685.*

Icon. *Fl. dan. 212. Hoffm. salic. t. 15. 16. 17. Fl. lapp. t. 6. f. L. & t. 7. f. 1 & 2.*

In Labrador, Newfoundland, and on the north-west coast. ♀. June. v. s. in *Herb. Banks.* A very low creeping species; leaves very handsomely marked with coloured veins.

vestita.

8. *S. repens*; foliis suborbiculatis integerrimis supra glabris reticulato-venosis subtus villis sericeis longissimis adpresso tectis, stipulis nullis, amentis serotinis pedunculatis linearibus sericeis, germinibus ovatis sessilibus villosis, stylo profunde bipartito, stigmatibus bifidis.

In Labrador. ♀. June. v. s. in *Herb. Lambert. et Banks.* A very elegant species, resembling the preceding.

Uva striata.

9. *S. depressa*; foliis spatulato-ovatis obtusis integerrimis, inferne margine sparse glandulosis, glabris, supra nitidis, stipulis nullis, amentis serotinis laxis, squamis oblongis ciliatis, germinibus ovatis pedicellatis glabris, stylo bipartito, stigmatibus bilobis.

In Labrador. ♀. April, May. v. s. in *Hort. Anderson.*

For this beautiful little species I am indebted to G. Anderson, Esq.; it has all the appearance of *Arbutus Uva ursi* in habit, as well as in the form of its leaves.

10. *S. depressa*; foliis ovalibus subacutis basi cordatis integrerrimis reticulato-venosis supra glabris, subtus palidis nervo margineque pilosis, stipulis semicordatis.

In Labrador. ♂. v. v. s. fl. in Hort. Anderson. In general habit it resembles *S. myrsinifera*.

11. *S. diffusa*; foliis obovatis obtusis integerrimis supra glabris, subtus sericeo-villosis, stipulis nullis, amentis subcoetaneis sessilibus oblongis 2-andris, squamis obovatis apice nigris pilosis.

In Labrador. ♂. *Colmaster*. North-west coast. Nelson. ♂. May. v. s. in *Herb. Dickson. et Banks*. This species is allied to *S. Arenaria* Linn. and is more inclined to be upright than the preceding.

12. *S. erectiuscula*, *divaricata*; ramulis laevigatis, foliis oblongo-lanceolatis utrinque acutis medio serrulatis glaberrimis patentibus planis discoloribus, stipulis nullis.

In Labrador. ♂. v. v. s. fl. in Hort. Anderson. This singular species distinguishes itself at first sight by its remarkable plain and patent leaves; it is inclined to rise from the ground on a single low stem, and approaches to the following division.

†[†] *Caule erecto*.

13. *S. ramulis laevigatis*, foliis obovato-lanceolatis acutis integrerrimis utrinque glabris concoloribus, stipulis nullis, amentis coetaneis pedunculatis glaberrimis, squamis oblongis pedicello duplo brevioribus vix pilosis, germinibus ovato-oblongis longissime pedicellatis glabris, stigmatibus sessilibus bifidis.

S. pensylvanica. *Hortul.*

On the Catskill mountains, New York. ♂. April. v. v. This elegant and singular species flowered in the garden of G. Anderson, Esq., from a plant brought by me from America. He has one through another channel, which appears to be the male to this species.

14. *S. foliis suboppositis obovato-lanceolatis acutis glabris apice subserratis discoloribus*, stipulis nullis, amentis praecocibus, squamis orbiculatis nigris, filamento unico, anthera geminata, germinibus sessilibus ova-to-ellipticis sericeis, stylo brevissimo, stigmatibus ova-tis emarginatis.—*Willd. sp. pl. 4. p. 673.*

cordifolia.

obovata.

planifolia.

pedicellaris.

Icon. *Engl. bot.* 1359.

On the banks of rivers and in willow grounds; introduced from Europe. ♂. March, April. v. v. It is cultivated on account of its exceeding tough branches for the use of making baskets.

rosmarinifolia. 15. *S. foliis strictis linear-lanceolatis utrinque acutis integerim marginis subglandulosis supra deciduo-pubescentibus, subtus sericeis, stipulis exiguis lanceolatis erectis, amentis præcocibus ovatis recurvatis, squamis oblongis obtusis ciliatis, germinibus pedicellatis lanceolatis villosis, stigmatibus subsessilibus bifidis.*—*Willd. sp. pl.* 4. p. 679.

Icon. *Engl. bot.* 1365.

In wet meadows and mountain swamps: Pennsylvania to Carolina. ♂. March, April. v. v. Not above three feet high. This species, though mentioned as a British plant in the *Flora Britannica*, is decidedly of American origin; as both sexes have been introduced from that country by G. Anderson, Esq. It has a great resemblance in general character to *S. recurvata*, but the *vernatio equitans* removes them far from one another.

fuscata. 16. *S. foliis obovato-lanceolatis acutis glabris subseratis subtus glaucis, junioribus pubescentibus, stipulis exiguis, amentis præcocibus nutantibus, squamis obtusis intus vix pilosis, germinibus brevi-pedicellatis ovatis sericeis, stigmatibus sessilibus bilobis.*

In low overflowed grounds, on the banks of rivers: New York to Pennsylvania. ♂. March, April. v. v. Branches of the preceding year covered with a dark brown or black tomentum.

*** *Foliis remote obtuseque serratis.*

conifera. 17. *S. foliis oblongo-lanceolatis remote serratis acutis supra glabris subtus planis tomentosis, annotinis glabris, stipulis lunatis subdentatis, amentis præcocibus diandris, squamis lanceolatis obtusis villosis, germinibus pedicellatis lanceolatis sericeis, stylo bifido, stigmatibus bilobis.*—*Willd. sp. pl.* 4. p. 705.

S. longirostris. *Mich. fl. amer.* 2. p. 226.

Icon. *Wangh. amer.* t. 31. f. 72.

In shady woods on gravelly dry soil: New York to Carolina. ♂. April. v. v. The cone-like excrescence at the end of the branches, occasioned by an insect, is not unfrequently found on other species belonging

to the present division, but particularly on *S. pri-*
noides.

18. *S. foliis oblongo-lanceolatis acutis basi biglandulosis ob-*
tuse serratis glabris subtus glaucis, stipulis ovatis acu-
tis glanduloso-serratis, amentis coætaneis villosis basi
foliosis, squamis lanceolatis obtusis villosis atris, ger-
minibus longe pedicellatis lanceolatis glabris, stylo
bifido, stigmatibus bifidis.—*Willd. sp. pl. 4. p. 666.*
Icon. *Muhl. in annals of bot. 2. t. 5. f. 2.*
In wet meadows and woods : New England to Virginia.
↳ April. v. v. Branches green ; younger ones
purple, smooth.
19. *S. foliis ovali-oblongis acutis remote undulato-serratis*
glabris subtus glaucis, stipulis semicordatis inciso-dentati,
amentis præcocibus villosis, germinibus pedi-
cellatis ovatis acuminatis sericeis, stylo longo, stigma-
tibus bifidis.
On the banks of rivers : Pennsylvania to Virginia. ↳
March, April. v. v. Middle-sized ; resembles *S. dis-*
color.
20. *S. foliis oblongis obtusiusculis glabris remote-serratis*
apice integerrimis subtus glaucis, stipulis deciduis lan-
ceolatis serratis, amentis subcoætaneis diandris oblongis
tomentosis, squamis oblongis acutis atris pilosis, ger-
minibus subsessilibus lanceolatis tomentosis, stylo
mediocri, stigmatibus bipartitis.—*Willd. sp. pl. 4.*
p. 665.
Icon. *Muhl. in annals of bot. 2. t. 5. f. 1.*
In low grounds and on the banks of rivers ; common :
New England to Carolina. ↳ April. v. v. Branches
dark brown ; filaments white ; anthers red, yellow
when burst. This is the most common in use for
basket-making.
21. *S. foliis lanceolatis acutis longissimis basi sensim atte-*
nuatis serrulatis glaberrimis subconcoloribus, stipulis
semicordatis, amentis præcocibus erectis glabriusculis,
germinibus pedicellatis ovatis glabris, stylo bifido,
stigmatibus 2-lobis.
In shady woods on the banks of rivers : New York and
Pennsylvania. ↳ March, April. v. v. Leaves very
long ; resembles *S. prinoides*.
22. *S. foliis linearibus utrinque acuminatis elongatis remo-*
tissime denticulatis glabris concoloribus, stipulis exi-
guis lanceolatis denticulatis, amentis serotinis pedun-

*myricoides.**prinoides.**discolor.**angustata.**longifolia.*

culatis tomentosis diandris, squamis planis retusis, filamentis basi barbatis squama duplo longioribus.—Willd. sp. pl. 4. p. 670.

Icon. *Muhlb. in annals of bot. 2. t. 5. f. 6.*

On the banks of the Susquehannah. *Muhlenberg.* h. . July. +. Not above two feet high; branches brown; branchlets white.

**** *Foliis dense acuteque serratis.*

† *Triandræ.* (Filamentis 3—6.)

babylonica. 23. *S. ramis pendulis, foliis lanceolatis acuminatis serratis glabris discoloribus, stipulis exiguis subrotundis, amentis coætaneis, germinibus sessilibus ovatis glabris.—Willd. sp. pl. 4. p. 671.*

On road sides and about plantations; introduced from Europe. h. May. v. v. The *Weeping Willow* is now almost naturalized, being every where planted for ornament.

Houstoniana. 24. *S. foliis linear-lanceolatis acutis tenuissime serratis utrinque glabris nitidis concoloribus, stipulis nullis, amentis coætaneis cylindricis villosis, squamis ovatis acutis, filamentis 3—5. usque ad medium barbatis.*

S. tristis. Hortul.

In Virginia and Carolina. h. v. v. s. fl.; v. s. c. fl. in *Herb. Banks. specimen Houstonianum.* This species, so frequently found in the gardens under the name of *S. tristis*, is very far from being in any way related to it. The specimen in the Banksian Herbarium was collected by Houston, and, as it is said, in Vera Cruz. But I am confident it is a more northern plant, as I frequently have seen it in Virginia. The branches are extremely brittle at their base.

falcata. 25. *S. foliis longissimis linear-lanceolatis superne sensim attenuatis subfalcatis basi acutis approximato-serratis utrinque glabris, junioribus sericeis, stipulis lunatis dentatis detlexis.*

On the banks of rivers: Pennsylvania to Virginia. h. v. v. s. fl. A very smooth species; branches very slender and brown.

nigra. 26. *S. foliis lanceolatis utrinque acutis serrulatis concoloribus glabris petiolis et nervo medio supra tomentosis, stipulis exiguis dentatis, amentis coætaneis erectis cylindricis villosis, squamis oblongis villosissimis, filamentis 3—6. basi barbatis, germinibus pedicellatis ovatis gla-*

bris, stylo brevissimo ; stigmatibus bifidis.—Willd. sp.
pl. 4. p. 657. Marsh. arb. 293.

S. caroliniana. Mich. fl. amer. 2. p. 226.

S. pentandra. Walt. fl. car. 243.

S. vulgaris. Clayt. fl. virg.

Icon. Mich. arb. 3. t. Muhl. in annals of bot. 2.
t. 5. f. 5.

On the banks of rivers : Pennsylvania and Virginia. $\frac{1}{2}$.
 May. v. v. A tree about twenty feet high ; branches
 smooth, very brittle at the base.

27. *S. foliis ovato-oblongis cuspidato-acuminatis basi rotundatis serratis glandulosis utrinque glabris nitidis, stipulis oblongis glanduloso-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis obtusis basi pilosis apice serratis glabris, germinibus lanceolato-subulatis glabris, stylo bifido, stigmatibus obtusis.—Willd. sp.*
pl. 4. p. 667.

Icon. Muhl. in annals of bot. 2. t. 5. f. 7. Mich. arb. 3.
t.

In low grounds, about springs : New York to Virginia.
 $\frac{1}{2}$. May. v. v. A very smooth and handsome species ; branches yellowish brown ; sometimes it grows to the size of a tree, but more generally it is only a shrub. It approaches to *S. amygdalina* of Europe.

28. *S. foliis oblongo-lanceolatis acuminatis basi subcordatis rigidis glabris argute serratis, serratura infima elongata, petiolis villosis, stipulis amplis cordatis obtusis glanduloso-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis atris lanatis, germinibus longe pedicellatis lanceolatis glabris, stylo brevissimo, stigmatibus bipartitis.—Willd. sp. pl. 4. p. 667.*

S. cordata. Mich. fl. amer. 2. p. 225.

S. cordifolia. Herb. Banks. nuss.

Icon. Muhl. in annals of bot. 2. t. 5. f. 4.

In swamps and hedges : New England to Virginia. $\frac{1}{2}$.
 April, May. v. v. Branches green, red towards the end, younger ones pubescent. It is very tough, and much in use by the basket-makers.

29. *S. foliis oblongo-lanceolatis acuminatis basi cordatis argute serratis glabris subtus pallidioribus, stipulis amplis ovato-subrotundis cartilagineo-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis lanatis atris, germinibus pedicellatis lanceolatis glabris, stylo*

lucida;

rigida;

cordata;

brevissimo, stigmatibus bifidis.—*Willd. sp. pl. 4.*
p. 666.

Icon. *Muhl. in annals of bot. 2. t. 5. f. 8.*

In low and swampy grounds, on the banks of rivers :
New York to Virginia. ♀. April, May. v. v. A
very elegant species, about six or eight feet high.

†† *Diandrae.*

grisea.

30. *S. foliis lanceolatis acuminatis serrulatis supra glabris ner-
vo medio tomentosis subtus sericeis nudisve, stipulis
linearibus deflexis deciduis, amentis præcocibus, squa-
mis oblongis pilosis apice atris, germinibus oblongis
pedicellatis sericeis, stigmatibus sessilibus obtusis.—
Willd. sp. pl. 4. p. 699.*

*S. sericea. Muhl. in annals of bot. 2. t. 5. f. 8. Marsh.
arb.*

In low overflowed grounds : Pennsylvania to Virginia.
♀. April. v. v. About eight feet high ; branches
greenish-purple, very brittle at the base.

petiolaris.

31. *S. foliis lanceolatis undique serratis glabris subtus glaucis
sericeis basi plerumque inæqualibus, stipulis lunatis
dentatis exiguis, amentis præcocibus laxis, squamis
obovatis obtusis nigris pilosis, germinibus longe pedi-
cellatis ovatis sericeis, stigmatibus sessilibus bilobis.—
Willd. sp. pl. 4. p. 665.*

S. pensylvanica. Hortul.

Icon. *Engl. bot. 1147.*

In swamps and on the banks of rivers ; common. ♀.
April. v. v.; v. s. in *Herb. Lambert. et Anderson.*
Branches slender, smooth, dark brown. It has been
by mistake adopted as a native of Great Britain.

alba.

32. *S. foliis lanceolatis acuminatis serratis utrinque sericeis,
serraturis infimis glandulosis, stipulis obsoletis, amen-
tis coætaneis elongatis, squamis elliptico-lanceolatis
concoloribus pubescentibus, germinibus subsessilibus
ovato-oblongis denique glabratis, stylo brevi, stigma-
tibus bipartitis crassis.—Willd. sp. pl. 4. p. 710.*

Icon. *Hoffm. salic. 1. t. 7. & 8. & t. 24. f. 3.*

On road sides and river banks ; introduced from Europe.
♀. April, May. v. v. A tall tree.

vitellina.

33. *S. foliis lanceolatis acuminatis crebro-serratis supra gla-
bris subtus discoloribus subsericeis, stipulis nullis,
amentis subcoætaneis cylindricis, squamis ovato-lan-*

ceolatis concoloribus extus pubescentibus, germinibus sessilibus ovato-lanceolatis glabris, stigmatibus subsessilibus bilobis.—*Willd. sp. pl. 4. p. 668.*

Icon. *Hoffm. salic. 1. t. 11. & 12. & t. 24. f. 1. Engl. bot. 1050.*

On road sides and about plantations; common. Introduced from Europe. h . May. $v. v.$ A middle-sized tree.

34. *S. foliis lanceolatis acuminatis concoloribus glabris glanduloso-serratis, amentis coætaneis, nectario gemino majusculo: lobis lanceolatis difformibus apice dentatis glabris, flosculis terminalibus 3-andris.*

In low grounds: New York and New Jersey. h . April. $v. v.$ Resembles in leaves and habit the preceding, and in fructification the following.

35. *S. foliis lanceolatis acuminatis undique serratis glaberrimis concoloribus, petiolis dentato-glandulosis, stipulis rotundatis, amentis subcoætaneis, squamis obovatis villosis, nectario masculorum gemino, germinibus subsessilibus lanceolatis glabris, stigmatibus sessilibus bipartitis.*—*Hoffm. salic. 2. t. 31. Engl. bot. 1937.*

On road sides and about plantations. Introduced from Europe. h . April, May. $v. v.$ A tall tree; branches very brittle.

36. *S. foliis elliptico-ovatis undique serrulatis utrinque glabris nitidis concoloribus, stipulis lanceolatis serratis, rameulis hirtis, amentis subpræcocibus erectis cylindricis, squamis lanceolato-oblongis longe villosis, germinibus ovato-lanceolatis sessilibus sericeis, stigmatibus subsessilibus bifidis.*—*Willd. sp. pl. 4. p. 678.*

Icon. *Fl. lapp. t. 8. f. f. t. 7. f. 6. Fl. dan. 1054. Hoffm. salic. t. 18.*

In Labrador. h . May. $v. v.$ in *Hort. Anderson.*; $v. s.$ in *Herb. Lambert.* A small straggling bush, not above a foot high; branches purplish-yellow.

37. *S. foliis orbiculatis subretusis serratis utrinque glabris nitidis, stipulis nullis, amentis serotinis paucifloris, squamis obovatis obtusis villosis, germinibus oblongo-ovatis subsessilibus glabris, stigmatibus brevissimis subsessilibus.*—*Willd. sp. pl. 4. p. 682.*

Icon. *Fl. dan. 117. Hoffm. salic. 1. t. 20. Fl. lapp. t. 8. f. h. t. 7. f. 3. & 4.*

On the north-west coast. *D. Nelson.* h . June, July.

ambigua,

decipiens,

myrsinoides,

herbacea.

v. s. in Herb. Banks. The smallest of all the known species; the stems not above an inch high.

692. *POPULUS.* *Gen. pl. 1581.*

- balsamifera.* 1. *P. foliis ovatis acuminatis adpresso-serratis subtus albidis reticulato-venosis, gemmis resinosis.* *Willd. sp. pl. 4/p. 805.*
Icon. Mich. arb. 3. p. 306. t. 13. f. 1. Duham. arb. ed. nov. 2. t. 50. Pall. fl. russ. 1. t. 41. Wangh. amer. t. 28. f. 59. Trew chret. t. 46. bona.
In Canada, particularly plenty about Hudson's Bay. h . March. v. v. From seventy to eighty feet high; the young buds are covered with a very odoriferous balsam, from which it is called *Balsam Poplar*; the natives call it *Tacamahac*.
- canadensis.* 2. *P. foliis cordatis ovatis acuminatis obtuse inaequaliter serratis subtus albidis subtriplinervibus reticulato-venosis, petiolis hirsutis, gemmis resinosis, ramis teretibus.* — *Willd. sp. pl. 4. p. 806.*
P. latifolia. Mœnch. method. p. 338.
P. canadensis. Mœnch. weissenst. 81.
Icon. Catesb. car. 1. t. 34.
In New England. h . March. v. v. From forty to fifty feet high; the buds are strongly covered with a balsamic fluid.
- trepida.* 3. *P. foliis suborbiculatis abrupte acuminatis dentatis basi supra biglandulosis glabris, junioribus sericeis.* — *Willd. sp. pl. 4. p. 803.*
P. tremuloides. Mich. fl. amer. 2. p. 243.
Icon. Mich. arb. 3. p. 285. t. 8. f. 1. Duham. arb. ed. nov. 2. t. 53.
In extensive swamps: Canada to Pennsylvania. h . April. v. v. From twenty to thirty feet high. Generally known by the name of *American Aspen Tree*.
- monilifera.* 4. *P. foliis subcordato-deltoidibus glabris basi glandulosis, serraturis cartilagineis hamatis pilosusculis, nervis parvulis, petiolis superne compressis, ramis adultis teretibus.* — *Willd. sp. pl. 4. p. 805.*
P. glandulosa. Mœnch. method. p. 339.
P. carolinensis. Mœnch. weissenst. 81.
Icon. Mich. arb. p. 295. t. 10. f. 2.
In North America. h . April. v. v. in Hortis. From sixty to seventy feet high. Michaux says that it has

not been observed in any part of North America growing wild.

5. *P. foliis rhomboideis promisse acuminatis circumcirca dentatis glabris, ramulis junioribus pilosis.* *betulifolia.*
P. hudsonica. *Mich. arb.* 3. p. 293. t. 10. f. 1.
P. nigra. *Mich. fl. amer.* 2. p. 244.
 On the Hudson- or North-river, and about Lake Ontario. ♀. March. v. v. From thirty to forty feet high; petioles and young branches yellow.
6. *P. foliis subrotundo-ovatis acutis inæqualiter sinuato-grandi-dentatis glabris, junioribus villosis, petiolis su-perne compressis.—Mich. fl. amer.* 2. p. 243. *grandidentata.*
 In Canada. ♀. April. v. v. From forty to fifty feet high.
7. *P. foliis subrotundo-ovatis deltoideis acuminatis subcor-datis inæqualiter serratis glabris basi glandulosis, petio-lis compressis, ramis junioribus angulatis.—Willd. sp. pl.* 4. p. 803. *lævigata.*
P. canadensis. *Mich. arb.* 3. p. 298. t. 11.
 In high rocky situations: Canada to Virginia, and about the Western lakes. ♀. March. v. v. From seventy to eighty feet high. In Virginia it is called *Cotton Tree.*
8. *P. foliis ovato-deltoideis acuminatis obtuse uncinato-dentatis glabris, junioribus amplissimis cordatis, ramis alato-angulosis.—Willd. sp. pl.* 4. p. 805. *angulata.*
P. heterophylla. *Du Roi harbk.* 2. p. 150.
P. basamifera. *Mill. dict.* n. 5.
Icon. *Mich. arb.* 3. p. 302. t. 12.
 In morasses, on the banks of rivers: Virginia to Florida, and on the Mississippi. ♀. April. v. v. About eighty feet high; leaves very large; branches brittle. It is known by the name of *Mississippi Cotton Tree.*
9. *P. foliis subrotundo-ovatis sinu parvo cordatis subauricu-latis obtusis uncinato-dentatis, junioribus tomentosis.* *heterophylla.*
Willd. sp. pl. 4. p. 806.
Icon. *Mich. arb.* 3. p. 290. t. 9. *Duham. arb. ed. nov.* 2. t. 51.
 In swamps: New York to Carolina, and on the western rivers. ♀. May. v. v. About seventy or eighty feet high. The leaves are on their base, properly speak-ing, more auriculated than cordated.

693. MYRICA. Gen. pl. 1510.

- Gale.* 1. *M. foliis cuneato-lanceolatis apice serratis obtusis, amentis masculis imbricatis, squamis acuminatis ciliatis, fructibus squamoso-capitatis.* — *Willd. sp. pl. 4. p. 745.*
Icon. *Fl. dan. 327.*
In boggy grounds in Canada, and about lakes on high mountains; plentifully on the Broad mountains, Pennsylvania. $\frac{1}{2}$. May. v. v. A low shrub, like all the following, of an agreeable sweet scent.
- cerifera.* 2. *M. foliis cuneato-lanceolatis apice rarer serratis acutis, amentis masculis laxis, squamis acutis, fructibus globosis minoribus.* — *Willd. sp. pl. 4. p. 745.*
Icon. *Catesb. car. 1. t. 69.* *Pluk. alm. t. 48. f. 9.*
- pumila.* 3. *M. foliis lineari-lanceolatis.* *Mich. fl. amer. 2. p. 228.*
In shady dry woods: Virginia to Carolina. β . In Carolina and Florida. $\frac{1}{2}$. May, June. v. v. A shrub sometimes more than twelve feet high. The berries of this and the following species produce a white vegetable wax, which the inhabitants manufacture into candles equal to those made of bees-wax.
- carolinensis.* 3. *M. foliis cuneato-oblongis grosse dentatis, amentis masculis laxis, squamis acutis, baccis globoeis majoribus.* — *Willd. sp. pl. 4. p. 746.*
M. cerifera β . *Mich. fl. amer. 2. p. 223.*
Icon. *Catesb. car. 1. p. 13.*
In wet places about rivers and swamps: New England to Florida. $\frac{1}{2}$. May. v. v. Not above three or four feet high.
- pensylvanica.* 4. *M. foliis oblongis utrinque acutiusculis integerrimis aut apice rarer subserratis margine revolutis, amentis masculis laxis, squamis acutis, baccis globosis majusculis.* — *Lam. encycl. 2. p. 592.*
Icon. *Duham. arb. ed. nov. 2. t. 55.*
In shady rocky situations: New Jersey and Pennsylvania. $\frac{1}{2}$. May. v. v. Not above three feet high. It generally is confounded with the preceding, but is a very distinct species.

694. BETULA. Gen. pl. 1419.

- populifolia.* 1. *B. foliis deltoidibus longe acuminate inaequaliter serratis glaberrimus, strobilorum squamis lobis lateralibus subtundis, petiolis glabris.* *Willd. sp. pl. 4. p. 463.*

- B. acuminata. *Ehrh. beitr.* 6. p. 98.
- B. lenta. *Du Roi harbk.* 1. p. 92. *Wangh. amer.* p. 45.
t. 29. f. 38.
- Icon. *Mich. arb.* 2. p. 139. t. 2. *Willd. arb.* t. 2. f. 5.
In barren rocky woods and old fields: Canada to Pennsylvania. h. June, July. v. v. From thirty to forty feet high. It is known by the name of *White Birch* or *Old Field Birch*.
2. B. foliis ovatis acutis serratis, petiolis pubescentibus pendunculo brevioribus, strobilorum squamis lobis lateribus rotundatis. *Willd. sp. pl.* 4. p. 463. *excelsa.*
- B. lutea. *Mich. arb.* 2. p. 152.
- Icon. *Mich. l. c. t.* 5. *Willd. arb.* t. 2. f. 2.
In low grounds: province of Maine, Hudson's river. h. May, June. v. v. From seventy to eighty feet high; generally called *Yellow Birch*.
3. B. foliis rhombeo-ovatis duplicato-serratis acutis subtus pubescentibus, basi integris, amentis femineis ovatis, squamis villosis, laciniis linearibus æqualibus.—*Willd. sp. pl.* 4. p. 464. *nigra.*
- B. lanulosa. *Mich. fl. amer.* 2. p. 181.
- B. rubra. *Mich. arb.* 2. p. 142.
- Icon. *Mich. l. c. t.* 3. *Willd. arb.* t. 2. f. 6.
On the banks of rivers: New Jersey to Carolina. h. May. v. v. About seventy feet high when full grown; the wood very fine. It is generally called *Red Birch*.
4. B. foliis ovatis acuminatis duplicato-serratis, venis subtus hirsutis, petiolo glabro, amentis femineis pedunculatis nutantibus, squamis lobis lateralibus brevibus suborbiculatis.—*Willd. sp. pl.* 4. p. 464. *papyracea.*
- B. papyrifera. *Mich. fl. amer.* 2. p. 180.
- Icon. *Mich. arb.* 2. p. 133. t. 1. *Willd. arb.* t. 2. f. 1.
In the forests of Canada to a great northern latitude, and as far south as the Hudson's river. h. May, June. v. v. A large tree, highly useful to the natives for constructing their large portable canoes, from which circumstance it is known by the name of *Canoe Birch*.
5. B. foliis cordato-ovatis argute serratis acuminatis, nervis subtus petiolisque pilosis, strobilorum squamis glabris, lobis obtusis æqualibus elevato-venosis.—*Willd. sp. pl.* 4. 464. *lenta.*
- B. carpinifolia. *Ehrh. beitr.* 6. p. 99.

B. nigra. *Du Roi harbk.* 1. p. 93. *Wangh. amer.* t. 15. f. 34.

Icon. *Mich. arb.* 2. p. 145. t. 4.

In Canada and throughout the Allegany mountains, to their termination in Georgia. $\text{h}.$ May, June. $v. v.$ This elegant and large tree is the most interesting of this genus, on account of the excellence of its wood. It is known by the name of *Mountain Mahogany*, *Black Birch*, *Cherry Birch*, and *Sweet Birch*. This last appellation it has from the sweet scent the branchlets give when bruised.

pumila.

6. *B. ramis pubescentibus impunctatis, foliis orbiculato-ovatis petiolatis subtus dense pubescentibus, amentis femineis cylindricis.* —*Willd. sp. pl.* 4. p. 467.

B. nana. *Kalm itin.* 2. p. 263.

Icon. *Jacq. hort. vind.* t. 122. *Du Roi harbk.* 1. t. 3. *Wangh. amer.* t. 29. f. 61.

In bogs of Canada, and on high mountains of New York and Pennsylvania. $\text{h}.$ May, June. $v. v.$ A low shrub, not above two or three feet high.

glandulosa.

7. *B. ramis glanduloso-punctatis glabris, foliis obovatisserratis basi integerrimis glabris subeasilibus, amentis femineis oblongis, squamis semitrifidis, seminibus orbiculatis angusto-marginatis.* —*Willd. sp. pl.* 4. p. 466.

In Canada, about Hudson's Bay, and on the borders of lakes on the high mountains of New Jersey and Pennsylvania. $\text{h}.$ May. $v. v.$ A handsome little shrub, not above two feet high.

nana.

8. *B. humillima, glaberrima; foliis orbiculatis crenatis subtus reticulato-venosis, amenti squamis profunde 3-partitis; lacinias oblongis, seminibus orbiculatis subapertis.* —*Willd. sp. pl.* 4. p. 465.

Icon. *Amoen. acad.* 1. t. 1. *Fl. dan.* 91. *Pall. fl. ross.* 1. t. 40. *Amman. act.* 9. t. 14.

In sphagnum swamps about Hudson's Bay and other parts of Canada. $\text{h}.$ April, May. $v. s.$ in *Herb. Lambert.*

695. ALNUS. *Willd. sp. pl.* 4. p. 334.

Betula. *Gen. pl.* 1419.

glutinosa.

1. *A. foliis subrotundo-cuneatis obtusis subretusis glutinosis, axillis venarum subtus villosis.* —*Willd. sp. pl.* 4. p. 334.

Betula Alnus. Sp. pl. 1394.

Icon. *Engl. bot. 1508. Læs. pruss. t. 1.*

On the banks of rivers, in the interior of Canada, and on the north-west coast. $\text{h}.$ April. *v. v.* A large tree, known every where under the name of *Alder.*

2. *A. foliis oblongis acutis basi rotundatis duplicato-serratis, petiolis venisque subtus pilosis, axillis venarum nudis, stipulis ovato-oblongis.* *crispa*

A. undulata. Willd. sp. pl. 4. p. 336.

Betula Alnus crispa. Mich. fl. amer. 2. p. 181.

Betula crispa. Ait. kew. 3. p. 339.

In Canada and on high mountains, in sphagnous swamps, of Pennsylvania. $\text{h}.$ April. *v. v.* A shrub not above three or four feet high.

3. *A. foliis obovatis acuminatis venis et axillis venarum subtus pilosis, stipulis ellipticis obtusis. Willd. sp. pl. 4. p. 336.* *serrulata.*

Betula serrulata. Ait. kew. 3. p. 338.

Betula rugosa. Ehrh. beitr. 3. p. 21.

Icon. *Abbot. insect. 2. t. 92. Wangh. amer.*

In swamps and on river sides; common every where. $\text{h}.$ March. *v. v.* A shrub from six to ten feet high, growing in close thickets.

696. CARPINUS. *Gen. pl. 1449.*

1. *C. foliis oblongo-ovatis acuminatis inaequaliter serratis, strobilorum squamis tripartitis, lacinia intermedia obliqua ovato-lanceolata uno latere dentata.—Willd. sp. pl. 4. p. 469.* *americana.*

C. virginiana. Mich. arb. 3. t. 8.

In shady woods and hedges: Canada to Florida. $\text{h}.$ May. *v. v.* This species of *Hornbeam* resembles the European very much, and its wood is of the same qualities: it rises to about fifteen feet high.

697. OSTRYEA. *Mich. gen. 223.*

1. *O. foliis ovato-oblongis basi subcordatis acuminatis inaequaliter serratis, strobilis oblongo-ovatis erectis, geminis acutis.—Willd. sp. pl. 4. p. 469.* *virginica.*

Carpinus virginiana. Ait. kew. 3. p. 363.

Icon. *Abbot. insect. 2. p. 151. t. 75. Pluk. alm. t. 156. f. 1.*

In shady woods: New England to Carolina. $\text{h}.$ May.

v. v. A small tree, of exceeding hard and heavy wood, from which it is generally known under the name of *Iron-wood*; in some parts they call it *Lever-wood*. I observed a variety in Pennsylvania, of which the younger branches were covered with glandulous hairs. It is rather singular to observe that the plate in *Mich. arb. 3. t. 7.* intended for the present plant, represents *Ostrya vulgaris* with hanging cones, which is never the case in the American species.

698. FAGUS. Gen. pl. 1448.

sylvatica.

1. F. foliis ovatis acuminatis leviter dentatis margine ciliatis basi acutis, nucibus ovato-triquetris obtusis cum mucrone.—*Willd. sp. pl. 4. p. 459. Mich. arb. 2. p. 170.*

Icon. *Mich. l. c. t. 8.*

In extensive forests: New Hampshire to Georgia. ♀. May. v. v. This species of beech forms those extensive and beautiful woods generally known by the name of *Beech-woods*, and always gives the indication of a fertile soil. It is distinguished by the name of *White Beech* from the following.

ferruginea.

2. F. foliis ovato-oblongis acuminatis subtus pubescentibus grosse dentatis basi obtusis subcordato-inæqualibus, nucibus acute ovato-triquetris acutissimis.—*Willd. sp. pl. 4. p. 460.*

Icon. *Mich. arb. 2. p. 174. t. 9. Abbot. insect. 2. t. 75.*

In rich level lands, at the foot of mountains: Canada to New England. ♀. May, June. v. v. It is distinguished by the inhabitants by the name of *Red Beech*, the wood being of a darker colour than the preceding. Both species are highly useful timber trees.

699. CASTANEA. *Tournef. inst. t. 352.*

*vesca : ame-
ricana.*

1. C. foliis lanceolatis acuminatis mucronato-serratis utrinque glabris.—*Willd. sp. pl. 4. p. 460.*

Fagus Castanea. Hort. cliff. 447.

Icon. *Mich. arb. 2. p. 156. t. 6.*

In the mountainous parts: New England to Carolina.

♀. May, June. v. v. The *American Chestnut* differs so little from the European, that no specific distinction can be drawn. It is one of the largest and

most useful trees of the forests, the wood being extremely durable, and in high esteem for posts and rails to construct fences. The nuts are very delicious.

2. *C. foliis oblongis acutis mucronato-serratis subtus albo-tomentosis*.—*Willd. sp. pl. 4. p. 461.*

Fagus pumila. Sp. pl. 1418.

Icon. *Mich. arb. 2. p. 166. t. 7. Wangh. amer. t. 19. f. 44. Abbot. insect. t. 57. Catesb. car. 1. t. 9. Pluk. alm. t. 156. f. 2.*

In dry barren and sandy fields and woods: New Jersey to Georgia. $\text{h}.$ May, June. $v. v.$ This small tree, or rather shrub, grows to the height of thirty feet and upwards in the southern regions, but to the north it seldom exceeds seven or eight feet. The fruit is very sweet and agreeable to eat, and is generally known by the name of *Chinquapin*.

700. QUERCUS. *Gen. pl. 1446.*

- * *Fructificatio biennis; fructibus subsessilibus; foliis setaceo-mucronatis.* (in specie 1. muticis.)

† *Foliis integerrimis.*

1. *Q. foliis deciduis linear-lanceolatis utrinque attenuatis integerrimis glabris mucronatis, cupula scutellata, glande subrotunda*.—*Willd. sp. pl. 4. p. 423.*

Q. Phellos sylvatica. Mich. querc. n. 7.

Icon. *Mich. l. c. t. 12. Mich. arb. 2. t. 12. Catesb. car. 1. t. 16. Abbot. insect. 2. t. 91. Wangh. amer. t. 5. f. 11. Pluk. amalh. t. 441. f. 7.*

- β. *Q. foliis brevioribus. Catesb. car. 1. t. 22. Wangh. amer. t. 5. f. 12.*

In low swampy forests, near the sea-coast: New Jersey to Florida. $\text{h}.$ May. $v. v.$ The *Willow Oak* grows to the height of about fifty or sixty feet. The young leaves are dentated. The variety β. is of low straggling growth.

2. *Q. foliis perennantibus coriaceis lanceolatis integerrimis glabris basi attenuatis, apice acutis mucronatis, cupula scutellata, glande subrotunda*.—*Willd. sp. pl. 4. p. 424.*

Q. Phellos maritima. Mich. querc. t. 13. f. 1.

On the sea-coast of Virginia and Carolina. $\text{h}.$ May, June. $v. v.$ A low shrubby species, from three to eight feet high.

pumila.

Phellos.

humilis.

maritima.

sericea.

3. Q. foliis deciduis lanceolato-oblongis integerrimis subundatis basi attenuatis obtusis, apice dilatatis acutis subtus sericeis, cupula scutellata, glande subglobosa.—*Willd. sp. pl. 4. p. 424.*

Q. Phellos pumila. *Mich. querc. t. 13. f. 1. ♂ 2.*

Q. Phellos sericea. *Ait. kew. 3. p. 354. Abbot. insect. 2. t. 51.*

Q. pumila. *Mich. arb. 2. p. 84. t. 15. Walt. fl. car. 234.*

Near the sea-coast : Carolina to Florida. ♀. May. v. v. The *Running Oak* is perhaps the smallest of all the species, scarcely ever exceeding two feet in height.

myrtifolia.

4. Q. foliis perennantibus coriaceis oblongis integerrimis glabris utrinque acutis supra nitidis margine revolutis.—*Willd. sp. pl. 4. p. 424.*

In Carolina. *Willdenow.* ♀. +. Leaves resemble those of *Myrtus communis* with large leaves ; the fruit is not known.

virens.

5. Q. foliis perennantibus coriaceis oblongo-ellipticis integerrimis matagine revolutis basi obtusis apice acutis muticis subtus stellatum pubescentibus, fructibus penduculatis, cupula turbinata, squamis abbreviatas, glande oblonga.—*Willd. sp. pl. 4. p. 425.*

Q. Phellos β. *Sp. pl. 1412.*

Q. sempervirens. *Walt. fl. car. 234.*

Icon. *Mich. querc. t. 10. ♂ 11. Mich. arb. t. 11. Catesb. car. 1. t. 10.*

Near the sea-coast : Virginia to Florida and Mississippi.

♀. May. v. v. The *Live Oak* grows to the height of forty or fifty feet, spreading its branches, when in open places, extremely wide : it yields the finest and most durable ship-timber of any species known ; for which reason it is considered one of the most valuable trees in America.

cinerea.

6. Q. foliis perennantibus coriaceis lanceolato-oblongis integerrimis margine revolutis basi attenuatis apice obtusiusculis mucronatis subtus stellatum tomentosis, fructibus sessilibus, cupula scutellata, glande subglobosa.—*Willd. sp. pl. 4. p. 425.*

Q. Phellos β. *Ait. kew. 3. p. 354.*

Q. humilis. *Walt. fl. car. 234.*

Icon. *Mich. querc. n. 8. t. 14. Mich. arb. 2. p. 80. t. 14.*

In dry barren soil and pine-forests : Virginia to Georgia.

♀. May, June. v. v. The *Upland Willow Oak* is

very variable in size, sometimes not above four feet, at others nearly twenty feet high. The younger Michaux considers *Q. nana* of Willdenow to be only a variety of the present species; which I very much doubt.

7. *Q. foliis deciduis oblongis utrinque acutis mucronatis integrerrimis nitidis subtus pubescentibus, cupula scutellata : squamis lato-ovatis, glande subglobosa.*—*Willd. sp. pl. 4. p. 428.*

Icon. *Mich. querc. n. 9. t. 15. & 16. Mich. arb. 2. p. 78. t. 13.*

On the banks of rivers, within the Allegany mountains, and in the western countries thereof. ♂. May, June. v. v. The *Shingle Oak* rises to about forty or fifty feet. The younger Michaux considers the wood of this species of little value.

8. *Q. foliis deciduis obovato-lanceolatis acutis basi attenuatis integerrimis utrinque glabris, cupula scutellata : squamis lanceolatis, glande subovata.*—*Willd. sp. pl. 4. p. 427.*

Icon. *Mich. querc. n. 10. t. 17.*

- β. *Q. foliis apice obtusis.* *Mich. querc. t. 18.*

In South Carolina and Georgia. ♂. May. v. v. The *Laurel Oak*, or as it is sometimes called *Swamp Willow Oak*, is about fifty or sixty feet high: its wood, according to the elder Michaux, is very valuable, and almost preferable to that of *Q. virens*. For what reason the younger Michaux does not mention this species, I cannot tell, unless he considers it only a variety of the preceding; which most certainly is not the case.

†† *Folius dentatis aut breviter lobatis.*

9. *Q. foliis subrotundo-ovatis subcordatis utrinque glabris remote spinoso-dentatis, cupula hemisphærica : squamis laxis, glande ovata acuta.*—*Willd. sp. pl. 4. p. 431.*

Icon. *Phuk. phytogr. t. 196. f. 3?*

On the north-west coast, about Nootka Sound. *Nee.*
♂. +.

10. *Q. foliis longe petiolatis ovato-lanceolatis oblongis integris vel inæqualiter grandidentatis, cupula hemisphærica, glande subglobosa.*—*Mich. arb. 2. p. 87.*

Icon. *Mich. l. c. t. 16.*

On the banks of the Delaware, Pennsylvania. ♂. May. v. v. Of this singular species there is but one indivi-

imbricaria.

laurifolia.

obtusa.

agrifolia.

heterophylla.

dual known, which grows on the plantation of the Messrs. Bartrams near Philadelphia. It probably is only a hybrid plant on that account, and cannot with propriety be considered a genuine species: but the younger Michaux having given a good figure of it, I insert it here on that account only.

- aquatica.* 11. *Q. foliis obovato-cuneiformibus glabris integerrimis apice obsolete trilobis, lobo intermedio majore, cupula hemisphaerica, glande subglobosa.* —Willd. sp. pl. 4. p. 441.
Q. nigra. Sp. pl. 1413.
Q. uliginosa. Wangh. amer. t. 6. f. 18.
 Icon. Mich. querc. n. 11. t. 19. t. 20. f. 1. 3. 4. 5. ♂
 t. 21. Mich. arb. 2. p. 89. t. 17.
 In swamps: Maryland to Florida. $\frac{1}{2}$. May. v. v.
 The Water Oak is about forty feet high when full grown; its wood is but little valued. Its leaves vary, according to soil and age, *ad infinitum*. There is scarcely one tree found having leaves like the other, and the same tree is almost as variable in its different branches.
- hemisphaerica.* 12. *Q. foliis perennantibus oblongo-lanceolatis indivisis trilobis sinuatissime, lobis mucronatis, utrinque glabris.* —Willd. sp. pl. 4. p. 443. Bartr. itin. 320.
 Icon. Mich. querc. t. 20. f. 2.
 In Georgia and Florida. $\frac{1}{2}$. May. v. v. s. This is probably nothing more than a young plant of *Q. aquatica*, which is so very apt to vary in its foliage.
- zana.* 13. *Q. foliis cuneiformibus glabris apice trilobis basi subsinuatis, lobis divaricatis mucronatis intermedio majore, axillis venarum subtus pubescentibus, cupula scutellata, glande ovato-subglobosa.* —Willd. sp. pl. 4. p. 443.
Q. aquatica elongata. Ait. kew. 3. p. 357.
 Icon. Abbot. insect. 2. t. 59.
 In pine-barrens of South Carolina. $\frac{1}{2}$. May. v. v. s. fr. A low-growing species, always keeping distinct from *Q. aquatica*.
- triloba.* 14. *Q. foliis oblongis cuneiformibus basi acutis, apice subtrilobis, lobis æqualibus mucronatis, intermedio longiore, subtus tomentosis, cupula scutellata, glande depresso-globosa.* —Willd. sp. pl. 4. p. 443.
Q. cuneata. Wangh. amer. p. 78. t. 5. f. 14.
 Icon. Mich. querc. n. 14. t. 26. Abbot. insect. 1. t. 50? In pine-barrens, near the sea-coast: New Jersey to Geor-

gia. ♀. May. v. v. The *Downy Black Oak* is from twenty to forty feet high, according to Michaux, of very rapid growth, and extremely well calculated for inclosing of lands.

15. Q. foliis coriaceis cuneiformibus basi subcordatis, apice dilatatis retuso-subtrilobis, junioribus mucronatis, supra glabris, subtus rubiginoso-pulverulentis, cupula turbinata: squamis obtusis scariosis, glande breviovata.—*Willd. sp. pl. 4. p. 442.*

Q. nigra β. *Sp. pl. 1413.*

Q. ferruginea. *Mich. arb. 2. p. 92.*

Icon. *Mich. querc. n. 12. t. 22. 23. Mich. arb. t. 18. Catesb. car. 1. t. 19. Wangh. amer. t. 5. f. 13. Abbot. insect. t. 58.*

In barren sandy or gravelly woods: New Jersey to Florida. ♀. May. v. v. The *Barren Oak* or *Black Jack* of the Virginians is of low growth, especially in the more northern states: it bears very abundantly and furnishes a fine mast for hogs: the wood is small, but excellent for fuel.

16. Q. foliis obovato-oblongis levissime sinuatissimis subtus pubescentibus, lobis oblongis obtusis obsolete denticulatis setaceo-mucronatis, cupula scutellata, glande depresso-globosa.—*Willd. sp. pl. 4. p. 444.*

Q. tinctoria angulosa. *Mich. querc. n. 13. t. 24.*

Q. discolor. *Willd. nov. act. soc. nat. scrut. berol. 3. p. 399.*

Q. velutina. *Lam. encycl. 1. p. 173*

In all large woods, particularly in the mountainous parts: New England to Georgia. ♀. May. v. v. The *Black Oak*, or *Quercitron*, is one of the largest trees of the American forest, and highly valuable on account of its timber as well as its bark, which is so very superior in tanning to any other species of oak.

17. Q. foliis oblongis pinnatifido-sinuatissimis subtus pubescentibus, lobis oblongis dentatis setaceo-mucronatis, cupula turbinata, glande ovata.—*Willd. sp. pl. 4. p. 444.*

Q. tinctoria sinuosa. *Mich. querc. n. 13. t. 25.*

Icon. *Abbot. insect. 2. p. 111. & 56. Pluk. alm. t. 54. f. 5.*

In large forests: Pennsylvania to Carolina. ♀. May. v. v. Resembles the preceding, and likewise *Q. coccinea*. The young expanding leaves are covered with

nigra.

tinctoria.

discolor.

a white down on both sides, which is not the case with either *Q. rubra* or *Q. coccinea*. Whether the figure of *Q. tinctoria* Mich. arb. 2. t. 22. belongs to this or the preceding species, I have not been able to decide.

+++ *Foliis profunde sinuatis lobatisque.*

- coccinea.* 18. *Q. foliis longe petiolatis oblongis profunde sinuatis glabris, lobis divaricatis dentatis acutis setaceo-mucronatis, cupula turbinata insigniter squamosa, glande breviovata.* — *Willd. sp. pl. 4. p. 446.*
 Icon. *Mich. querc. n. 18. t. 31. 32. Mich. arb. 2. p. 116. t. 23. Wangh. amer. t. 4. f. 9.*
 In fertile woods: New England to Georgia. ♂. May. v. v. The Scarlet Oak is a very large tree, and changes its leaves in autumn to a bright red, which give the woods a very picturesque appearance.
- ambigua.* 19. *Q. foliis sinuatis glabris basi acutis, sinubus subacutis, cupula subscutellata, glande turgide ovata.* — *Mich. arb. 2. p. 120.*
 Icon. *Mich. l. c. t. 24.*
 On Hudson's Bay and in Nova Scotia. *Michaux.* ♂. May. +. This is an intermediate species, between the preceding and following one, and probably only a hybrid plant. Michaux calls it *Gray Oak*.
- rubra.* 20. *Q. foliis longe petiolatis oblongis glabris obtuse sinuatis, lobis acutiusculis dentatis setaceo-mucronatis, cupula scutellata sublaevi, glande subovata turgida.* — *Willd. sp. pl. 4. p. 445.*
 Icon. *Mich. querc. n. 20. t. 35. 36. Mich. arb. 2. p. 126. t. 26. Wangh. amer. t. 3. f. 7. Pluk. alm. t. 54. f. 4. Du Roi hardk. 2. t. 5. f. 2.*
 In fertile forests: Canada to Pennsylvania, and in the Alleghany mountains. ♂. May. v. v. This large and fine timber tree is exclusively known by the name of *Red Oak*, which name is likewise applied to *Q. tinctoria*, *coccinea*, *falcata*, *palustris*, *phellos*, *ambigua*, and *aquatica*, in several parts of America.
- Catesbeiana.* 21. *Q. foliis brevissime petiolatis basi cuneatis oblongis profunde sinuatis glabris, lobis tribus quinisve divaricatis dentatis acutis setaceo-mucronatis, cupula turbinata ampla: squamis obtusis marginalibus introflexis, glande subglobosa.* — *Willd. sp. pl. 4. p. 446.*
 Icon. *Mich. querc. n. 17. t. 29. 30. Mich. arb. 2. p. 101. t. 20. Catesb. car. 1. t. 23.*

- In pine-barrens : Carolina and Georgia. $h.$ May. $v. v.$ The *Barren Scrub Oak* is of shrubby growth, not above fifteen feet high, and occurs in the most sterile soil of those countries in great abundance.
- 22. Q. foliis longe petiolatis basi obtusis subtus tomentosis trilobis sinuatis, lobis subfalcatis setaceo-mucronatis, terminali elongato, cupula crateriformi, glande globosa.** — *Mich. fl. amer.* 2. p. 199.
Q. elongata. *Willd. sp. pl.* 4. p. 444.
 Icon. *Mich. querc. n.* 16. t. 28. *Mich. arb.* 2. p. 104. t. 21.
 In sandy soil, near the sea-coast : New Jersey to Georgia. $h.$ May. $v. v.$ A very large tree, commonly called *Spanish Oak*. In the southern states it is known by the name of *Red Oak*.
- 23. Q. foliis longe petiolatis oblongis profunde sinuatis glabris, axillis venarum subtus villosis, lobis divaricatis dentatis acutis setaceo-mucronatis, cupula scutellata laevi, glande subglobosa.** — *Willd. sp. pl.* 4. p. 446.
 Icon. *Mich. querc. n.* 19. t. 33. 34. *Mich. arb.* 2. p. 123. t. 25. *Du Roi harbk.* 2. p. 5. f. 4. *Wangh. amer.* t. 5. f. 10.
 In low swampy woods : New England to Pennsylvania, and in Illinois. $h.$ May. $v. v.$ The *Swamp Spanish Oak* or *Pin Oak* is a large tree; leaves rather small and handsomely divided; the acorns small, and generally in great abundance.
- 24. Q. foliis longe petiolatis obovato-cuneiformibus tri-quinquelobisve margine integerimis subtus cinereo-tomentosis, lobis setaceo-mucronatis, cupula subturbinata, glande subglobosa.** — *Mich. fl. amer.* 2. p. 199.
Q. ilicifolia. *Willd. sp. pl.* 4. p. 447. *Wangh. amer.* 79. t. 6. f. 17.
 Icon. *Mich. querc. n.* 15. t. 27. *Mich. arb.* 2. p. 96. t. 19. *Abbot. insect.* 2. t. 79?
 In dry barren fields and on the mountains : New Jersey to Virginia. $h.$ May. $v. v.$ This shrub, about four or six feet high, covers large tracts of ground wherever it occurs, called *Oak-barrens*: it is known by the name *Bear Oak*, *Black Scrub Oak*, and *Dwarf Red Oak*.

** *Fructificatio annua; fructibus pedunculatis; foliis muticis.*

† *Foliis lobatis.*

obtusilobata. 25. *Q. foliis oblongis sinuatis basi cuneatis subtus pubescens-tibus, lobis obtusis superioribus dilatatis bilobis, culpa hemisphaerica, glande ovali.* — *Mich. fl. amer. 2. p. 194.*

Q. stellata. *Willd. sp. pl. 4. p. 452. Wangh. amer. 78. t. 6. f. 15.*

Icon. *Mich. querc. n. 1. t. 1. Mich. arb. 2. t. 4.*

In most forests: Canada to Florida. $\frac{1}{2}$. May. v. v.
The *Upland White Oak* or *Iron Oak* is a spreading tree about fifty or sixty feet high; its timber is of great value in ship-building.

macrocarpa. 26. *Q. foliis subtus tomentosis profunde lyratim sinuato-lobatis, lobis obtusis repandis, superioribus dilatatis, cupula craterata; squamis superioribus setosis, glande turgide ovata.* — *Willd. sp. pl. 4. p. 453.*

Icon. *Mich. querc. n. 2. t. 2. t. 3. Mich. arb. 2. t. 3.*

Within the mountains, on dry slate or lime-stone hills: Kentucky, Tennessee, Illinois, Mississippi, and Missouri. $\frac{1}{2}$. May. v. p. A large tree, called *Overcup White Oak* by the inhabitants; the fruit is the largest of the American species; the wood very excellent.

oliviformis. 27. *Q. foliis oblongis glabris subtus glaucis profunde inaequilater sinuato-pinnatifidis, fructu elliptico-ovato, cupula profunde craterata superne crinita, glande elliptico-ovali.* — *Mich. arb. 2. p. 32.*

Icon. *Mich. arb. 2. t. 2.*

On the banks of Hudson's river and the western parts of New York. *Michaux.* In Pennsylvania and Virginia, on iron-ore hills. *Ph. -* $\frac{1}{2}$. May. v. v.; The *Mossy-cup Oak* is a large tree; the foliage handsome, and somewhat resembling the preceding species.

lyrata. 28. *Q. foliis brevissime petiolatis glabris lyrato-sinuatis summitate dilatatis, lobis oblongis acutis superioribus angulato-truncatis, cupula depresso-globosa tuberculoso-muricata, glande globosa subtecta.* — *Willd. sp. pl. 4. p. 458. Wall. fl. car. 23.*

Icon. *Mich. querc. n. 3. t. 4. Mich. arb. 2. p. 42. t. 5.*
In swamps: Carolina to Florida, and on the Mississippi. $\frac{1}{2}$. May. v. s. This oak is from eight to fifteen feet

high, and known under the names *Over-cup Oak*, *Swamp-post Oak*, and *Water White Oak*. The fruit is almost entirely covered with the cupula or calyx.

29. Q. foliis oblongis pinnatifido-sinuatis subtus pubescentibus, lobis linear-lanceolatis obtusis integerrimis basi attenuatis, fructibus pedunculatis, cupula subcraterata tuberculosa, basi plana, glande ovaia.—*Willd. sp. pl. 4. p. 449.*

Icon. *Mich. querc. n. 4. t. 5.* *Mich. arb. 2. p. 13. t. 1.*
Du Roi harbk. 2. t. 5. f. 5. *Wangh. amer. t. 3. f. 6.*
Catesb. car. 1. t. 21. f. 2.

- β. Q. foliis levissime lobatis utrinque viridibus. *Mich. l. c. t. 5. f. 2.*

In fertile forests: New England to Carolina. β. Pennsylvania and Carolina. h. May. v. v. The *White Oak* is one of the most abundant and useful of this genus in America; it grows in the middle states to an immense size.

† *Foliis integris, dentatis.*

30. Q. foliis longe petiolatis obovatis acutis subtus pubescens, dentibus grosse dentatis, dentibus subæqualibus dilatatis apice callosis, cupula craterata basi attenuata, glande ovata.—*Willd. sp. pl. 4. p. 439.*

Q. *Prinus palustris.* *Mich. fl. amer. 2. p. 196.*

Icon. *Mich. querc. n. 5. t. 6.* *Mich. arb. 2. t. 7.* *Du Roi harbk. 2. t. 6. f. 3.* *Wangh. amer. t. 4. f. 8.*
Catesb. car. 1. t. 18. *Plak. alm. t. 54. f. 3.*

In low shady woods and on the banks of rivers: Pennsylvania to Florida. h. May. v. v. This large and useful tree is known by the name of *Chesnut White Oak*, *Swamp Chesnut Oak*, and, to the south, *White Oak*. The fruit is large, and of a sweet taste.

31. Q. foliis brevi-petiolatis oblongo-obovatis subtus albotomentosis grosse dentatis basi integerrimis, dentibus inæqualibus dilatatis acutiusculis apice callosis, fructibus geminis longe pedunculatis, pedunculo in setam terminante, cupula hemisphærica, glande oblongo-ovata.—*Willd. sp. pl. 4. p. 440.*

Q. *Prinus tomentosa.* *Mich. querc. n. 5. t. 9. f. 2.*

Q. *Prinus discolor.* *Mich. arb. 2. p. 46. t. 6.*

In low wet woods: Pennsylvania to Carolina. h. May. v. v. The *Swamp White Oak* grows to a very large tree; the acorn, as of most of the chesnut oaks, is sweet.

alba.

repanda.

Prinus.

bicolor.

montana. 32. Q. foliis modice petiolatis lato-ovobatis oblongis subtus albo-tomentosis supra nitidis grosse dentatis basi obtusis inæqualibus, dentibus subæqualibus obtusissimis brevibus, fructibus geminis brevi-pedunculatis, cupula hemisphærica, squamis tuberculatis rugosis, glande ovata.—Willd. sp. pl. 4. p. 440.

Q. *Prinus monticola*. Mich. fl. amer. 2. p. 196.

Icon. Mich. querc. n. 5. t. 7. Mich. arb. 2. t. 8. Abbot. insect. 2. t. 82.

In rocky situations on the mountains: New England to Carolina. h. May. v. v. The *Rock Chesnut Oak* rises to about sixty feet; its timber is in high value, and its bark tans extremely well.

Castanea. 33. Q. foliis longe petiolatis oblongo-lanceolatis basi obtusis acuminatis subtus tomentosis grosse dentatis, dentibus subæqualibus dilatatis acutis apice callosis, cupula hemisphærica, glande ovato-subglobosa.—Willd. sp. pl. 4. p. 441.

Q. *Prinus acuminata*. Mich. fl. amer. 2. p. 196.

Icon. Mich. querc. n. 5. t. 8. Mich. arb. 2. p. 61. t. 9. In the Allegany mountains and on the banks of the Delaware. h. May. v. v. The *Yellow Oak* is a beautiful and large tree; the acorns are eatable.

Chinquapin. 34. Q. foliis brevi-petiolatis obovatis basi acutis grosse dentatis subtus glaucis, dentibus subæqualibus dilatatis apice callosis, cupula hemisphærica, glande ovata.

Q. *Prinus Chinquapin*. Mich. arb. 2. p. 65.

Q. *prinoides*. Willd. sp. pl. 4. p. 440.

Icon. Mich. querc. n. 5. t. 9. f. 1. Mich. arb. 2. t. 10. bona.

On dry mountain lands: Pennsylvania to Carolina. h. May. v. v. The *Chinquapin* or *Dwarf Chesnut Oak* is a low-growing shrub, not exceeding three or four feet in height; it is highly ornamental when in full bloom.

701. CORYLUS. Gen. pl. 1450.

americana. 1. C. foliis subrotundis cordatis acuminatis, calycibus fructus subrotundo-campanulatis nuce subglobosa majoribus, limbo dilatato dentato-serrato.—Willd. sp. pl. 4. p. 471.

Icon. Wangh. amer. t. 29. f. 63.

In low shady woods: Canada to Florida. h. March, April. v. v. The *Hazel Nut* or *Wild Filbert* is a shrub from four to eight feet high; the nuts very fine.

2. *C. foliis oblongo-ovatis acuminatis, stipulis linearis-lanceolatis, calycibus fructus campanulato-tubulosis nuce majoribus bipartitis, laciniis inciso-dentatis. Willd. sp. pl. 4 p. 471.*

Icon. *Willd. arb. t. 1. f. 2.*

In the mountains : Canada to Carolina. $\frac{1}{2}$. April. v. v.

This species is not above four or five feet high.

rostrata.

702. LIQUIDAMBAR. *Gen. pl. 1452.*

1. *L. foliis palmatis, lobis acuminatis, serratis, sinibus basos venarum villosis.—Willd. sp. pl. 4. p. 475.* *styraciflua.*

Icon. *Mich. arb. 3. p. 194. t. 4.*

In low woods, on fertile soil : New England to Florida, and in all the western countries. $\frac{1}{2}$. May. v. v. The *Sweet-gum Tree* is sometimes found of an immense size, particularly in the southern states ; its wood is of an exquisite hard texture and fine grain, and furniture made of it has a very handsome appearance.

703. COMPTONIA. *Gen. pl. 1764.*

1. *C. foliis longo-linearibus alternatim crenato-pinnatifidis. asplenifolia.* —*Willd. sp. pl. 4. p. 320.*

Liquidambar peregrinum. Syst. veg. 560.

Liquidambar asplenifolium. Sp. pl. 1418.

Icon. *Pluk. alm. t. 100. f. 6.*

In sandy, stony, or slaty woods : New England to Virginia. $\frac{1}{2}$. March, April. v. v. The *Sweet-fern Bush* rises to about three or four feet high ; the whole of the plant when rubbed has a strong resinous scent.

704. PLATANUS. *Gen. pl. 1451.*

1. *P. foliis quinquangularibus obsolete lobatis dentatis, ramulis albentibus.—Willd. sp. pl. 4. p. 474.* *occidentalis.*

Icon. *Catesb. car. 1. t. 56. Duhani. arb. t. 35. Mich. arb. 3. t. 3.*

On the banks of rivers : Canada to Florida, and in Louisiana. $\frac{1}{2}$. May. v. v. This tree is known by the name of *Button-wood*, *Water Beech*, *Sycamore* and *Plane Tree*; in Canada *Cotton Tree*. It is perhaps the largest tree in North America : on the fertile banks of the Ohio and the Mississippi there are trees measuring from ten to sixteen feet in diameter.

705. JUGLANS. Gen. pl. 1446.

- * *Amentis masculis simplicibus, polyandris*: Walnuts,
- nigra*. 1. *J. foliolis numerosis ovato-lanceolatis serratis subcordatis superne angustatis, subtus petiolisque subpubescentibus, fructibus globosis scabro punctatis, nuce corrugata*.—*Willd. sp. pl. 4. p. 456.*
Icon. Mich. arb. 1. p. 157. t. 1. Jacq. ic. rar. 1. t. 191.
Wangh. amer. t. 8. f. 20. Catesb. car. 1. t. 67.
 In fertile woods: New England to Florida. $\frac{1}{2}$. April, May. v. v. The Black Walnut is, like all the following, a tree of large size, and its nuts are eaten by men and several species of animals. The wood is put to various mechanical and economical uses; for which information I refer to the different authors on forest trees, but particularly to the works of the younger Michaux.
- cinerea*. 2. *J. foliolis numerosis lanceolatis serratis basi rotundatis subtus pubescenti-mollibus, petiolis villosis, fructibus oblongo-ovatis apice mammosis viscidis longe pendunculatis, nuce oblonga acuminata insigniter insculpto-scabrosa*.—*Willd. sp. pl. 4. p. 456.*
J. cathartica. Mich. arb. 1. p. 165.
J. oblonga. Mill. dict. n. 3. Reiz. obs. 1. p. 10.
Icon. Mich. arb. 1. t. 2. Jacq. ic. rar. 1. t. 192. Wangh. amer. t. 9. f. 21.
 Near the sea-coast: Canada to Virginia, and on the Alleghany mountains. $\frac{1}{2}$. April, May. v. v. It is known under the name of Butter Nut, Oil Nut, and White Walnut. The younger Michaux has altered the adopted name, and substituted one indicating the medicinal use made of it, which certainly would be a very good name if the old one had not been so long established.
- ** *Amentis masculis compositis, tetrandris*. Hickory.
- olivæformis*. 3. *J. foliolis numerosis (13—15) lanceolatis subsfalcatis serratis, impari petiolato, fructibus oblongis tetragonis, nuce olivæformi lœvi*.—*Willd. sp. pl. 4. p. 457.*
J. angustifolia. Ait. kew. 3. p. 361.
J. Pecan. Muhl. in nov. act. soc. nat-scrut. berol. 3. p. 392.
Icon. Mich. arb. 1. t. 3.
 On the banks of the Ohio, Mississippi, and other rivers.

in Upper Louisiana. $\frac{1}{2}$. April, May. v. v. It is generally known under the name of *Pecan* or *Illinois Nut*; the fruit is small, with a very thin shell, and a delicious kernel.

4. *J. foliolis subnovenis obovato-lanceolatis acuminatis serratis subtus pubescentibus, impari subsessili basi attenuato, fructibus subrotundis 4-carinatis, nuce subglobosa leviter compressa lœvi longe mucronata.*—*Willd. sp. pl. 4. p. 457.*

J. mucronata. *Mich. fl. amer. 2. p. 192.*

J. laciniosa, *Mich. arb. 1. p. 199.*

Icon. *Mich. arb. 1. t. 8.*

In fertile valleys of the Allegany mountains. $\frac{1}{2}$. April, May. v. v. It is called *Thick Shell-bark Hickory*, *Springfield* or *Glocester Nut*. The nuts are large and fine tasting; the bark is torn lengthways in long loose fragments, as in the following species.

5. *J. foliolis subseptenis longe petiolatis oblongo-lanceolatis acuminatis argute serratis, subtus villosis, impari sessili, amentis filiformibus glabris, fructibus depresso-globosis, nuce compressa obliqua.*—*Mich. fl. amer. 2. p. 193. Sp. pl. 1415.*

J. compressa. *Willd. sp. pl. 4. p. 458. Muhl. in nov. act. soc. nat. scrut. berol. 3. p. 390.*

J. squamosa. *Mich. arb. 1. p. 190.*

Icon. *Mich. arb. 1. t. 7. Pluk. alm. t. 309. f. 2. Gært. carp. 2. t. 89. sub J. compressa. Catesb. car. 1. t. 38.*

In shady fertile forests: New England to Carolina, and throughout the Allegany mountains. $\frac{1}{2}$. April, May. v. v. This useful tree is known by the name of *Shell-bark Hickory*, *Shag-bark* and *Scaly-bark Hickory*, on account of its bark, which is torn in loose fragments like the preceding: its nuts are white, with a thin shell and very sweet and large kernel.

6. *J. foliolis subnovenis oblongo-lanceolatis acuminatis leviter serratis subtus pubescentibus scabris, impari gubernatulo, amentis filiformibus longissimis tomentosis, fructibus subglobosis lœvibus, pericarpio crassissimo, nuce subsexangulata putamine crassa durissima.*—*Mich. fl. amer. 2. p. 192.*

J. alba. *Willd. sp. pl. 4. p. 457.*

Icon. *Mich. arb. 1. p. 186. t. 6.*

In fertile forests: New England to Virginia, and on the Allegany mountains. $\frac{1}{2}$. April, May. v. v. This

sulcata.

alba.

tomentosa.

- is known under the name of *Mocker Nut*, *White-heart Hickory* or *Common Hickory*. The wood is excellent for mechanical purposes, and particularly esteemed as fire-wood ; but the nuts are very hard, with but little kernel in them.
- maria.* 7. J. foliolis subnovenis ovato-oblongis acuminatis argute serratis utrinque glabris, impari breviter petiolato, fructibus subglobosis, superne suturis prominulis, nuce lævi subglobosa mucronata, putamine fragili.—*Mich. arb.* 1. p. 177.
In dry fertile woods: New England to Maryland, and on the mountains. ♂. May. v. v. This is known by the name of *Bitter Nut*, *White* or *Swamp Hickory*. The nuts are small, the kernel bitter.
- porcina.* 8. J. foliolis subseptenis lanceolatis acuminatis serratis utrinque glabris, impari subsessili, fructibus pyriformibus vel globosis, nuce lævi durissima.—*Mich. arb.* 1. p. 206.
- obcordata.* α. J. fructu globoso, nuce obcordata.—*Mich. arb.* 1. p. 206. t. 9. f. 3. ♂ 4.
β. J. fructu turbinato, nuce oblonga.—*Mich. arb.* 1. p. 209. t. 9. f. 1. ♂ 2.
- J. glabra. *Willd. sp. pl.* 4. p. 458.
In dry fertile forests: New England to Virginia. ♂. May. v. v. It is known by the name of *Pig* or *Hog Nut*, also *Broom Hickory*. The natives and inhabitants make brooms of it by slitting the very tough wood into narrow slips, which finally form a very good and durable broom. The nuts are very small and extremely hard.
- aquatica.* 9. J. foliolis subundenis angusto-lanceolatis acuminatis sub-serratis sessilibus, impari breviter pedicellato, fructibus pedunculatis ovatis suturis 4. prominulis, nuce subdepressa rubiginosa tenera.—*Mich. arb.* 1. p. 182.
Icon. *Mich. arb.* 1. t. 5.
In swamps and rice-fields: South Carolina and Georgia. ♂. May. v. s. Michaux calls it *Water Bitter-nut Hickory*. The fruit is extremely bitter.
- myristicæformis.* 10. J. foliolis quinis ovato-lanceolatis acuminatis serratis glabris, impari subsessili, fructibus ovalibus rugoso-scabris, nuce ovali brevi-acuminata sulcato-lineata durissima.—*Mich. arb.* 1. p. 211.
Icon. *Mich. arb.* 1. t. 10.

In South Carolina. *Michaux.* h. +. The *Nutmeg Hickory* is but little known; the nuts are very hard, and brown with white lines.

706. MORUS. *Gen. pl. 1424.*

1. *M. foliis cordatis ovatis acuminatis trilobis, æqualiter serratis scabris, subtus pubescentibus, amentis feminineis cylindricis.*—*Willd. sp. pl. 4. p. 369.*

rubra.

Icon. Mich. arb. 3. p. 232. t. 10. Wangh. amer. t. 15. f. 35. Pluk. alm. t. 246. f. 4.

In fertile valleys throughout the middle States. h. June. v. v. The *Red Mulberry* is a very handsome tree, and the wood useful and very durable.

III. CONIFERÆ.

707. PINUS. *Gen. pl. 1451.*

* *Foliis solitariis, basi distinctis.* Abies.

1. *P. foliis solitariis planis emarginatis integris subtus glaucis subpectinatis supra suberectis recurvato-patentibus, conis cylindraceis erectis, bracteolis abbreviatis obovatis longe mucronatis subserrulatis.*—*Willd. sp. pl. 4. p. 504.*

Balsamea.

Abies balsamifera. Mich. fl. amer. 2. p. 207.

Icon. Lambert. monogr. p. 48. t. 31. Mich. arb. 3. t. 14.
In Canada, Nova Scotia, New England, and on the Allegany mountains, in high and cold situations. h. May. v. v. This elegant tree is known by the name of *Balsam of Gilead Fir*, *Fir Balsam*, and *American Silver Fir*. It grows to the height of about forty or fifty feet.

2. *P. foliis solitariis planis brevioribus emarginatis subtus glaucis subsecundis supra crebris erectis, conis ovato-oblongis erectis, bracteolis elongatis reflexis oblongo-cuneatis emarginatis brevi-mucronatis inciso-denticulatis.*

Fraseri.

On high mountains of Carolina. *Fraser.* On the Broad-mountains, Pennsylvania. *Ph.* h. May. v. v.; v. s. in *Herb. Lambert.* This species, known among the inhabitants by the name of *Double-balsam Fir*, re-

sembles the preceding in several respects, but differs at first sight in being a smaller tree, the leaves shorter and more erect, and the cones not one fourth the size. Messrs. Frasers introduced this tree into England a few years ago.

taxifolia.

3. *P. foliis solitariis planis subdistichis, conis oblongis, antheris didymis.* — *Lambert. monogr. p. 51. t. 33.*

On the banks of the Columbia. *M. Lewis.* On the north-west coast. *Menzies.* h. v. s. in *Herb. Lewis.* This elegant and tall tree has some resemblance to the following one, but the leaves are more than twice the length. I have among my specimens two varieties, or probably distinct species, which for want of fructification I cannot decide: one has acute leaves, green on both sides; the other emarginate leaves, glaucous underneath.

canadensis.

4. *P. foliis solitariis planis denticulatis subdistichis, strobilis ovatis terminalibus yix folio longioribus.* *Lambert. monogr. p. 50. t. 32.*

P. americana. Du Roi harbk. 2. p. 107.

Icon. Lambert. l. c. Mich. arb. 1. p. 137. t. 13. Wangh. amer. t. 15. f. 36.

In the most northern regions of Canada and on the highest mountains, as far south as Carolina. h. May. v. v. The *Hemlock Spruce* is a very elegant tree, and grows in some situations to an enormous size; its bark is a fine substitute for oak-bark in tanning.

aigra.

5. *P. foliis solitariis tetragonis undique sparsis erectis strictis strobilis ovatis, squamis ellipticis margine undulatis apice eroso-denticulatis.* — *Lambert. monogr. p. 41. t. 27.*

P. mariana. Du Roi harbk. 2. p. 107.

P. denticulata. Mich. fl. amer. 2. p. 206.

Icon. Lambert. l. c. Mich. arb. 1. t. 11. Mill. ic. 1. t. 1.

From the more northern parts of Canada to Carolina, throughout the tracts of high mountains. h. May. v. v. The *Black Spruce* or *Double Spruce* is, besides its great mechanical use, the tree of which that wholesome beverage called *Spruce Beer* is made.

rubra.

6. *P. foliis solitariis subulatis, strobilis oblongis obtusis, squamis rotundatis subbilobis margine integris.* *Lambert. monogr. p. 43. t. 28.*

Abies pectinata. Lamarck. encycl. 6. t. 523.

DICLINIA CONIFERÆ. *Pinus.*

Icon. *Lambert. l. c.*

In Nova Scotia and about Hudson's Bay. $\frac{1}{2}$. May. v. s.

This species of *Spruce Fir* is nearly related to the preceding. It is, as yet, a very scarce tree in the gardens.

7. *P. foliis solitariis tetragonis incurvis, strobilis subcylindricis laxis, squamis obovatis integerrimis.* *Lambert. monogr. p. 39. t. 26.*

alba.

P. laxa. *Ehrh. beitr. 3. p. 24.*

P. canadensis. *Du Roi harbk. 2. t. 124.*

Icon. *Lambert. l. c.* *Mich. arb. 1. t. 12.* *Wangh. amer. 5. t. 1. f. 2.*

In similar situations with *P. nigra*. $\frac{1}{2}$. May. v. v.

The *White Spruce* is of lower growth than the *Black Spruce*, its wood not so good as that, and its branches unfit for making spruce beer.

** *Foliis pluribus, basi vaginatis.* *Pinus.*

8. *P. foliis brevibus geminis, strobilis recurvis oblongo-conicis longitudine foliorum, aculeis squamarum subulatis rectis.* — *Lambert. monogr. p. 18. t. 13.*

inops.

P. virginiana. *Du Roi harbk. 2. p. 35.*

Icon. *Lambert. l. c.* *Mich. arb. 1. t. 4.*

In dry barren soil : New Jersey to Carolina. $\frac{1}{2}$. May. v. v. The *Jersey Pine*, *Pitch* or *Scrub Pine*, is of middle size, straggling growth, and full of resin. Its branches are tougher than any other pine I know, and might be used for several useful purposes if its wood was not so apt to an early decay. A. B. Lambert, Esq. in his magnificent Monograph on this interesting and useful genus, made similar observations, which the younger Michaux in his *Arbres forestiers*, p. 60. has taken up as a point of criticism. On this subject Mr. Lambert favoured me with his observations respecting this and some other remarks made by Mr. Michaux, which I think proper here to insert ; it is in the following words : "The criticisms made by Mr. Michaux on my 'Description of the genus *Pinus*' are so inaccurate, that I did not think them worth my notice before, nor should I now, were it not to prevent Mr. Pursh from being misled by them, though I believe he is already well aware of their fallacy : I shall therefore beg of him to insert a few observations on the different subjects to which they respectively belong, if they meet with his approbation and con-

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DICLINIA CONIFERÆ. *Pinus.*

culture. Whether Mr. Michaux has been successful in changing the specific names of the pines, I shall leave to future botanists to decide: but I must correct him in respect to the *specific name* he has added to my own, which certainly does not belong to it." The observation which Mr. Lambert makes in this place is, " Michaux's observations relative to the branches of *P. inops* being not fit for hoops appear to be mere matter of opinion, as well as mine, without experience."

- resinosa.* 9. *P. foliis elongatis geminatis, vaginis elongatis, strobilis ovato-conicis basi rotundatis subsolitariis folio dimidio brevioribus, squamis medio dilatatis inermibus.*—*Lambert. monogr. p. 20. t. 14.*
- P. rupestris.* *Mich. arb. p. 45. t. 1.*
In Canada and the western parts of New York. $\frac{1}{2}$. v. v. This tree, called by Aiton *Pitch Pine*, is generally known in its native country by the name of *Norway Pine*; sometimes, particularly among the Canadian French, *Red Pine*. It grows in close forests, is very tall, and its bark is remarkably smooth and red; the timber is very heavy, for which reason it is rejected for masts, though its size and shape are apparently very recommendable for that purpose. Mr. Lambert in his note, quoted above, observes, " In confirmation of what I have said relative to the timber of *P. resinosa*, Mr. Michaux mentions the exportation of it being much diminished, as it has been found to contain too much sap; but he still thinks, from some planks he has seen, it is without foundation."
- Banksiana.* 10. *P. foliis brevibus geminatis rigidis divaricatis obliquis, strobilis recurvis tortis, squamis inermibus.*—*Lambert. monogr. p. 7. t. 3.*
- P. rupestris.* *Mich. arb. 1. p. 49. t. 2.*
P. hudsonia. *Lam. encycl. 5. p. 339.*
P. sylvestris δ . *divaricata.* *Ait. kew. 3. p. 366.*
In cold barren and rocky situations: Nova Scotia, Hudson's Bay, parts of Canada and Province of Maine. $\frac{1}{2}$. April, May. v. v. The *Scrub Pine*, or, as Michaux calls it, the *Gray Pine*, is a small straggling tree, which in some instances, when growing among the barren rocks, does not rise above five or eight feet high, though it will grow to a considerable size when, by accident or culture, it is brought on good soil. Mr. Lambert observes in his note, " that the trees of this

species now in England exude a great quantity of resin from their branches."

11. *P. foliis elongatis binis ternatisque tenuibus canaliculatis, strobilis ovato-conicis subsolitariis, squamarum aculeis incurvis.*—*Lambert. monogr. p. 22. t. 15.*

P. mitis. Mich. arb. 1. p. 52. t. 3.

In most pine-forests : New England to Georgia. $\frac{1}{2}$. May. v. v. The *Yellow Pine* is the most in use for building of houses as well as shipping. Mr. Lambert's note on this species says, "The height and size of *P. variabilis* I have taken from Wangenheim, who saw it growing in America, and see no reason for doubting his authority."

12. *P. foliis ternis, vaginis abbreviatis, amentis masculis erecto-incumbentibus, strobilis ovatis sparsis vel aggregatis, squamarum spinis reflexis.*—*Lambert. monogr. p. 25. t. 18. 19.*

Icon. *Lambert. l. c. Mich. arb. 1. p. 89. t. 8.*

On the plains : New England to Virginia. $\frac{1}{2}$. May. v. v. The common *Black or Pitch Pine* grows in favourable situations to a very large tree; it is found promiscuously in dry soil and very wet low grounds. Mr. Lambert says that his observations on this species were taken from Wangenheim.

13. *P. foliis elongatis ternis, amentis masculis erecto-incumbentibus, strobilis ovatis, squamarum aculeis rectis tenuissimis.*—*Mich. fl. amer. 2. p. 205.*

P. Tæda alopecuroides. Ait. kew. 3. t. 368.

Icon. *Mich. arb. 1. p. 86. t. 7. Lambert. monogr. t. 19. f. 5.*

On the edges of ponds and swamps : New Jersey to Carolina. $\frac{1}{2}$. May. v. v. This and the preceding species ripen their seeds only after the second year. I strongly suspect them to be only varieties; and if it had not been introduced as a species by a very good figure of Michaux's, I should have only given it as such.

14. *P. foliis geminis brevibus acutis, strobilis ovato-conicis, aculeis squamarum elongatis subulatis incurvis, inferioribus reflexis.*—*Lambert. monogr. p. 91.*

Icon. *Lambert. monogr. t. 16. f. c. Mich. arb. 1. p. 61. t. 5.*

On high mountains : on the Grandfather and Table

variabilis.

rigida.

serotina.

pungens.

mountains, Carolina. h. v. s. in *Herb. Lambert.* The cones are large and armed with strong spines. The cone figured t. 16. f. c. in *Lambert. monogr.* is genuine, but the branch belongs to a separate species.

Teda.

15. *P. foliis elongatis ternis, vaginis elongatis, strobilis oblongo-conicis deflexis folio brevioribus, spinis inflexis.*
—*Lambert. monogr. p. 23. t. 16. 17.*

Icon. *Lambert. l. c. Mich. arb. 1. p. 97. t. 9.*

In barren and sandy situations: Virginia to Florida. h. April, May. v. v. The *Loblolly or Old-field Pine* is found in large tracts in the southern states: all the woods seem to be seeded with it; for when any piece of cleared land is neglected for any space of time it will be covered with those pines. It is difficult and in some cases almost impracticable to recover those lands run over with young pines, as the ground appears to have lost all fertile properties for any other vegetable than those trees. The account Mr. Michaux gives of this tree is very correct and instructive; as also is the plate of Mr. Lambert; but unfortunately the latter, considering *P. tæda Wangh. amer. 41.* a genuine synonym, although it evidently belongs to *P. rigida* or *serotina*, has inadvertently been led into some errors in his description.

palustris.

16. *P. foliis ternis longissimis, stipulis pinnatifidis ramentaceis persistentibus, strobilis subcylindraceis muricatis.*
—*Lambert. monogr. p. 27. f. 20.*

P. australis. Mich. arb. 1. p. 64. t. 6.

Icon. *Lambert. et Mich. l. c. Abbot. insect. 1. t. 42.*

In the forests, near the sea-coast: North Carolina to Florida. h. May. v. v. The *Long leaved, Yellow, Pitch, or Broom Pine* is a beautiful as well as very useful tree. Mr. Lambert's remarks respecting the quality of the wood he has taken from Wangenheim, whom he considers sufficient authority; but on the observations of Michaux respecting the male flowers, he mentions in his note, "I can only suppose Mr. Michaux has never seen my plate with the male flowers, or he never would have made such an observation about them."

Strobus.

17. *P. foliis quinque gracilibus, vaginis brevissimis, strobilis pendulis cylindraceis folio longioribus, squamis laxis.*
—*Willd. sp. pl. 4. p. 501. Lambert. monogr. p. 31. t. 22.*

Icon. *Lambert. l. c. Mich. arb. 1. p. 103. t. 10. Wangh. amer. 1. t. 1. f. 1.*

In fertile soil, on the side of hills: Canada to Virginia. $\frac{1}{2}$. May. v. v. The *White* or *Weymouth Pine* is the largest and most useful of all the species above mentioned; in the State of Vermont they grow to an enormous size; it is the best timber in America for masts.

*** *Folius fasciculatis. Larix.*

18. *P. foliis fasciculatis deciduis, strobilis oblongis, squamrum marginibus inflexis, bracteolis panduræformibus acumine attenuato. Lambert. monogr. p. 55. t. 36. Ait. kew. 3. p. 369.*

pendula.

In low cedar swamps: Canada to New Jersey. $\frac{1}{2}$. April, May. v. v. The *Black Larch*, *Tamarack*, or *Hack-matack* of the Americans, is a beautiful tree, resembling the European Larch in appearance, as well as in the excellent qualities of its wood and bark.

19. *P. foliis fasciculatis deciduis, strobilis subrotundis paucifloris, squamis reflexis, bracteolis ellipticis obtuse acuminatis. Lambert. monogr. p. 56. t. 37.*

microcarpa.

P. pendula. Willd. arb. 215.

P. laricina. Du Roi harbk. 2. p. 83.

Larix americana. Mich. fl. amer. 2. p. 203.

Icon. *Lambert. l. c. Mich. arb. 3. t. 4. Wangh. amer. t. 16. f. 37.*

About Hudson's Bay and on high mountains of New York and Pennsylvania. $\frac{1}{2}$. May. v. v. The *Red Larch* resembles the preceding, and both have been considered as one species by Michaux; but they are specifically and constantly different; I never saw them both growing in the same place, or even near one another. Mr. Lambert likewise observes that they have always kept distinct, when raised from seed.

708. ~~CYPRESSUS~~ *CUPRESSUS. Gen. pl. 1458.*

1. *C. foliis distichis planis deciduis, floribus masculis aphylllo-paniculatis, strobilis subglobosis.—Willd. sp. pl. 4. p. 512.*

austicha.

Icon. *Mich. arb. 3. p. 4. t. 1. Catesb. car. 1. t. 11. Comm. hort. 1. t. 59. Plub. alm. t. 85. f. 8.*

In extensive swamps and on the banks of large rivers from Indian-river Delaware to Florida, and on the Mis-

sissippi. $\text{h}.$ May. *v. v.* The *Bald* or *Deciduous Cypress* is one of the largest trees of the New Continent. The extensive use made of its wood, and other particulars respecting this interesting tree, are fully elucidated in the excellent work of the younger Michaux, who paid particular attention to the use and properties of the different American forest trees.

- thyoides.* 2. C. ramulis compressis, foliis quadrifariam imbricatis ovatis basi tuberculatis, strobilis globulosis.—*Willd.* sp. pl. 4. p. 512.

Icon. *Mich. arb.* 3. p. 20. t. 2. *Wangh. amer.* t. 2. f. 4. *Pluk. mant.* t. 345. f. 1.

In deep swamps: New England to Carolina. $\text{h}.$ April, May. *v. v.* The *White Cedar*, so well treated upon by Michaux, is the principal tree, composing what is called *Cedar-swamps*, throughout the middle and southern States.

709. THUYA. Gen. pl. 1457.

- occidentalis.* 1. T. ramulis ancipitibus, foliis quadrifariam imbricatis ova-to-rhombeis adpresso nudis tuberculatis, strobilis obovatis, squamis interioribus truncatis, infra apicem gibbositis. *Willd.* sp. pl. 4. p. 508.
- Icon. *Mich. arb.* 3. p. 29. t. 3. *Wangh. amer.* t. 2. f. 3. From Canada to the mountains of Virginia and Carolina. $\text{h}.$ May. *v. v.* The *American Arbor Vitæ* is rather scarce in the southern States, and only found on the steep banks of mountain torrents. The branches are extremely tough.

710. JUNIPERUS. Gen. pl. 1552.

- communis.* 1. J. foliis ternis patentibus mucronatis bacca longioribus. *Willd.* sp. pl. 4. p. 853.
- erecta.* $\alpha.$ J. ramis erectis.
 $\beta.$ J. ramis depressis.
- $\alpha.$ About rocks, near the falls of rivers, in Canada and the western part of New York. $\beta.$ in New York, and particularly in the province of Maine, in rocky or gravelly situations. $\text{h}.$ May. *v. v.* The *Common Juniper* may probably have been originally brought from Europe; but the variety $\beta.$, or probably a distinct species, seems to be really an original native; it does not grow above a foot or two high, and one single

root will cover sometimes a space of from fifteen to twenty feet in diameter.

3. *J. foliis ternis basi adnatis, junioribus imbricatis, senioribus patulis.* *Willd. sp. pl. 4. p. 863.* *virginiana.*
Icon. Mich. arb. 3. p. 42. t. 5. Wangh. amer. t. 2. f. 51.
 In dry and rocky woods and fields: Province of Maine to Georgia. $\frac{1}{2}$. May. v. v. The Red Cedar, so useful and durable a wood, for whose history I refer to Michaux's work so often quoted, is as yet in great abundance in most parts of that country; but its extermination is going on so rapidly, that future inhabitants will be very much at a loss, and will feel the want of it when it is too late.
3. *J. foliis oppositis obtusis medio glandulosis, quadrifariam imbricatis, tenellis acutis oppositis, caule fruticoso.* *Willd. sp. pl. 4. p. 852.* *Sabina.*
Icon. Pluk. alm. t. 197. f. 4.
 In the clefts of rocks: Canada. *Michaux.* β . Within the Rocky-mountains. *M. Lewis.* $\frac{1}{2}$. v. s. in *Herb. Lewis.* Not above six inches high.
4. *J. foliis oppositis obtusiusculis, medio glandulosis, quadrifariam imbricatis, tenellis acutis ternis patulis, caule arboreo.* *Willd. sp. pl. 4. p. 852.* *procumbens.*
J. Sabina varietas. *Pall. ross. 2. p. 15.*
 On the banks of the waters of the Rocky-mountains. *M. Lewis.* $\frac{1}{2}$. May. v. s. in *Herb. Lewis.* A lofty elegant tree. Specimens of Pallas in the Herbarium of A. B. Lambert, Esq. seem to be the same with those collected by Mr. Lewis.
5. *J. foliis omnibus quadrifariam imbricatis, junioribus ovatis, senioribus acutis.* *Willd. sp. pl. 4. p. 851.* *barbadensis.*
Icon. Pluk. alm. t. 197. f. 4.
 On the coast of Florida. *Michaux.* $\frac{1}{2}$. v. v. in *Hortis.*

711. TAXUS. Gen. pl. 1553.

1. *T. foliis linearibus diastichis margine revolutis, receptaculis masculis globois.* *Willd. sp. pl. 4. p. 856.* *canadensis.*
T. baccata minor. *Mich. fl. amer. 2. p. 245.*
 In shady, rocky places: Canada. *Michaux.* On the banks of the Antietum, Maryland. Ph. March, April. v. v. The plants I observed on the Antietum cover a great part of the rocky banks of that river. Under the shade of other trees it does not rise above two or three feet.

712. ZAMIA. Gen. pl. 1700.

- integrifolia.* 1. *Z. frondibus pinnatis, foliolis lanceolatis rotundato-obtusis basi attenuatis latere exteriore ad apicem serrulatis, stipite glabro subtetragono.* Willd. sp. pl. 4. p. 847.
Z. pumila. Sp. pl. 1659. exel. synon.
Icon. Jacq. ic. 3. t. 635.
In East Florida. ♀. +. This species of palm is only found in Florida, as I have made all inquiries to find it in Georgia, but without success.

XX. CRYPTOGAMIA.

I. GONOPTERIDES.

713. EQUISETUM. *Recept.* peltata, pentagona, spicata.
Indusium corniculatum. *Stam.* 4. *Styl.* 0. *Sem.* 1.

II. STACHYOPTERIDES.

714. LYCOPODIUM. *Capsulae* reniformes, 1-loculares, 2-valves, polysperme. *Sem.* minutissima, pulvri-formia.
715. BERNHARDIA. *Capsulae* 3-cocce, 3-loculares; loculis superne dehiscentibus, semibivalvibus.
716. OPHIOGLOSSUM. *Capsulae* nudæ, uniloculares, in spicam articulatam disticham connatae, 2-valves, transverse dehiscentes.
717. BOTRYCHIUM. *Capsulae* subglobosæ, rachi adnatae in racemum compositum dispositæ, 1-loculares: valvulis binis postice connexis transverse dehiscentibus.

III. SCHISMATOPTERIDES.

718. HYDROGLOSSUM. *Spicæ* unilaterales. *Capsulae* biserialis, latere interiore a basi ad verticem dehiscentes. *Indusium* squamiforme quamlibet capitulo abtegens.
719. SCHIZÆA. *Spicæ* unilaterales, flabellatae, aggregate. *Capsulae* vertice radiatim striatae, subturbinate, poro oblongo latere hiantes. *Indusium* continuum e margine infexo spicæ formatum.
720. OSMUNDA. *Capsulae* subglobosæ, pedicellatae, striatae, semibivalves, paniculatae: *Indusium* nullum.

IV. FILICES.

721. ACROSTICHUM. *Capsulae* sparse, discum totum inferiorem frondis vel ejus partem occupantes. *Indusium* nullum.
722. POLYPODIUM. *Sori* subrotundi, sparsi. *Indusia* nulla.
723. WOODSIA. *Sori* subrotundi, sparsi. *Indusium* ciliiforme, apetum, margine crinitum, includens *Capsulas* pedicellatas.
724. ASPIDIUM. *Sori* subrotundi, sparsi. *Indusium* umbilicatum vel uno latere dehiscentia.
725. ONOCLEA. *Capsulae* partem frondis inferiorem dense tegentes. *Indusia* squamiformia, in formam baccæ conuata non dehiscentia.
726. STRUTHIOPTERIS. *Capsulae* partem frondis inferiorem dense tegentes. *Indusia* squamiformia, marginalia, interius dehiscentia.
727. ASPLENIUM. *Sori* lineares, transversales, sparsi. *Indusia* e venis lateralibus orta, costam versus dehiscentia.
728. SCOLOPENDRIUM. *Sori* lineares, transversales, sparsi. *Indusium* duplex, ad utrumque latus sori situm.
729. PTERIS. *Sori* continui, lineares, marginales. *Indusium* e margine frondis, inflexum, interius dehiscentia.
730. VITTARIA. *Sori* lineares, longitudinales, continui vel in margine vel in disco frondis. *Indusium* duplex, ad utrumque latus sori.
731. BLECHNUM. *Sori* lineares, longitudinales, continui, ad utrumque latus costæ frondis. *Indusium* superficiarium, interius dehiscentia.
732. WOODWARDIA. *Sori* oblongi, distincti, recti, ad utrumque latus costæ frondis. *Indusia* superficiaria, fornicata, interius dehiscentia.
733. ADIANTUM. *Sori* oblongi vel subrotundi, *Indusia* membranaceis, e margine ortis, interius dehiscentibus inserti.
734. CHEILANTHES. *Sori* punctiformes, discreti, marginales, tecti *Indusio* squamiformi, marginali interius dehiscente.
735. DICKSONIA. *Sori* punctiformes, marginales, subrotundi, distincti. *Indusium* duplex, alternum superficiarium, exterius dehiscens, alterum marginale interius dehiscens.

736. HYMENOPHYLLUM. *Sorus marginalls, receptaculo cylindraceo insertus. Indusium bivalve, sorum includens.*

V. HYDROPTERIDES.

737. ISOETES. *Capsula membranacea, non dehiscens, frondis basi immersa, 1-locularis. Semina angulata, receptaculis pluribus filiformibus inserta.*
738. SALVINIA. *Indusia imbricata, connata, capsulam unilocularem mentientia. Semina receptaculo centrali inserta.*
739. AZOLLA. *Capsula unilocularis, radicalis, globosa, polysperma.*
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I. GONOPTERIDES.

713. EQUISETUM. *Gen. pl. 1614.*

1. E. caulinibus sterilibus simpliciter ramosis, ramis scabriusculis tetragonis, fructificationibus simplicibus, vaginis cylindraceis inciso-dentatis, dentibus acutis. *Willd. enum. 1065. Willd. sp. pl. 5. p. 1.*
Icon. *Schkuhr filic. t. 167.*
In low and sandy fields: Pennsylvania and Virginia. ♀, April, May. v. v.
arvense.
2. E. caulinibus sterilibus fructificantibusque duplicato-ramosis, ramis scabriusculis deflexis tetragonis, ramulis subtriquetratis. *Willd. enum. 1065. Willd. sp. pl. 5, p. 3.*
Icon. *Schkuhr filic. t. 166. Fl. dan. 1182.*
In low shady woods: New York to Virginia. ♀. April — June. v. v.
sylvaticum.
3. E. caulinibus subramosis, ramis subquaternis tetragonis glabris, spica cylindracea terminali.—*Willd. sp. pl. 5. p. 4.*
In swamps: New York to Virginia. ♀. May. v. v.
Resembles *E. limosum.*
uliginosum.
4. E. caulinibus simpliciter ramosis glabris sulcatis, ramis pentagonis apice spiciferis. *Willd. enum. 1065. Willd. sp. pl. 5. p. 5.*
palustre.

- Icon. *Schkuhr filic.* t. 168, 169. *Fl. dan.* 1183.
On the banks of rivers and in deep swamps: Virginia.
4. May, June. v. v.
- scirpoides.* 5. *E. caulinibus simplicibus adscendentibus glabris filiformibus apice spiciferis, vaginis 3-dentatis sphacelatis, dentibus aristatis apice caducis.* *Willd. sp. pl.* 5. p. 7. *Mich. fl. amer.* 2. p. 281.
E. reptans. *Swartz. in litt.*
In shady woods, round the mossy feet of trees: Canada
and on the Green mountains, Vermont. 4. July.
v. v. A small species.
- hyemale.* 6. *E. caulinibus simplicibus erectis scaberrimis apice spiciferis, vaginis discoloribus basi apiceque sphacelatis, dentibus aristatis omnino caducis.* *Willd. sp. pl.* 5. p. 8.
Icon. *Schkuhr filic.* t. 172.
On the banks of rivers and in swamps: Canada to Vir-
ginia. 4. July, Aug. v. v.

II. *STACHYOPTERIDES.*714. *LYCOPODIUM.* *Gen. pl.* 1615.* *Spicis pedunculatis.*

- carolinianum.* 1. *L. caule repente, foliis subdistichis patulis lanceolatis su-
perficialibus adpressis, pedunculo erecto solitario elon-
gato monostachyo, bracteis sublanceolatis.* — *Willd. sp.
pl.* 5. p. 14.
Icon. *Dill. musc.* t. 62. f. 5.
In low meadows and woods: Pennsylvania to Carolina.
4. July. v. v.
- clavatum.* 2. *L. caule repente, ramis adscendentibus, foliis sparsis
enervibus incurvato-setigeris, spicis geminatis cylindri-
cis pedunculatis, squamis ovatis acuminatis eroso-den-
ticulatis.* *Willd. sp. pl.* 5. p. 16.
Icon. *Schkuhr filic.* t. 162. *Fl. dan.* 126. *Dill. musc.
t. 58. f. 1.* *Pluk. alm.* t. 47. f. 8.
In dry pine woods: Canada to Pennsylvania. 4. July.
v. v. It sometimes has only one spike.
- complanatum.* 3. *L. caule erecto, ramis alternis dichotomis, foliis bifariis
connatis apice patentibus, superficialibus solitariis ad-
pressis, pedunculis quadrifidis tetrastachyis, spicis te-
retibus cylindricis.* *Willd. sp. pl.* 5. p. 19.

Icon. *Fl. dan.* 78. *Dill. musc. t. 59. f. 3.*

In shady woods, on rocky soil : Canada to Virginia. ♀.
July. v. v.

4. *L. caulis erectis, ramis alternis dichotomis subcompressis, foliis lanceolatis acutis quadrisparis adpressis, pedunculis solitariis elongatis tristachyis, spicis teretibus, squamis subrotundis acuminatis.* *tristachyum.*

On high mountains in Virginia, near the Sweet-springs.
♀. July. v. v. This species is intermediate between
the preceding and following one.

5. *L. caule erecto, ramis alternis dichotomis, foliis lanceolatis acutis quadrisparis adpressis convexis, pedunculis solitariis mono-stachyis, spicis teretibus, squamis subcordatis acuminatis.* — *Willd. sp. pl. 5. p. 20.* *sibirae-foli-*
um.

L. alpinum. Mich. fl. amer. 2. p. 282.

Icon. *Dill. musc. t. 58. f. 2?*

In Canada. *Michaux.* ♀. July. +.

** *Spicis sessilibus; foliis caulem circumobscidentibus.*

6. *L. caule erecto, ramis alternis confertis dichotomis partibus, foliis sparsis sexfariis linear-lanceolatis patulis, spicis solitariis terminalibus sessilibus.* *Willd. sp. pl. 5. p. 21.* *dendroideum.*

L. obscurum. Sp. pl. 1566.

Icon. *Schkuhr filic. t. 164. Dill. musc. t. 64. f. 12.*

In dry shady woods: Canada to Carolina. ♀. July.
v. v. This and some other species are known by the
name of *Ground Pine*, and made use of for orna-
menting rooms and chimney-pieces, it forming, when
properly tied up, beautiful festoons.

7. *L. caule repente, ramis adscendentibus basi bis bipartiti, ramulis simplicibus, foliis quinquefariis linear-lanceolatis mucronatis apice serrulatis patentibus, ad incrementa annua contractis, spicis solitariis sessilibus terminalibus.* *Willd. sp. pl. 5. p. 23.* *annotinum.*

Icon. *Schkuhr filic. 162. Fl. dan. 127. Dill. musc. t. 63. f. 9.*

In shady woods: Canada to Pennsylvania. ♀. July. v. v.

8. *L. caule subramoso repente, ramis simplicibus solitariis erectis apice mono-stachyis, foliis linearibus sparsis acutis integerrimis supra curvis, spica sessili foliosa.* *Willd. sp. pl. 5. p. 25.* *inundatum.*

Icon. *Schkuhr filic. 160. Fl. dan. 336. Dill. musc. t. 61. f. 7.*

In cedar swamps and overflowed woods: Canada to New York. 2. July. v. v.

- alopecuroides.* 9. L. caule repente subramoso, ramis subsimplicibus elongatis adscendentibus apice monostachyis, foliis linearisubulatis basi ciliato-dentatis patulis, spica sessili foliosa. *Willd. sp. pl. 5. p. 26.*

Icon. *Schkuhr filic. t. 160. Dill. musc. t. 62. f. 6.*

In sphagnum swamps: New York to Carolina. 2. July. v. v. It is known by the name of *Walking Fern.*

- selagineoides.* 10. L. caule repente, ramis adscendentibus simplicibus, foliis sparsis lanceolatis patulis ciliato-denticulatis, spicis terminalibus solitariis foliosis sessilibus. *Willd. sp. pl. 5. p. 28.*

Icon. *Schkuhr filic. t. 165. Fl. dan. 70. Dill. musc. t. 68. f. 1.*

In mossy woods: Canada and New Hampshire. 2. July. v. v. The American plant is smaller than the European.

- rupstre.* 11. L. caule repente ramoso, ramis subdivisis adscendentibus, foliis sparsis imbricatis linearis-lanceolatis ciliatis apice piliferis, spicis solitariis sessilibus terminalibus. *Willd. sp. pl. 5. p. 30.*

Icon. *Schkuhr filic. t. 165. Dill. musc. t. 63. f. 11.*

On rocks: Canada to Virginia, and on the Carolina mountains. 2. July. v. v. A small species.

*** *Spicis sessilibus; foliis distichis.*

- albidulum.* 12. L. foliis bifariis ovatis acutis denticulatis, superficialibus alternis distichis adpresso, spicis terminalibus elongatis sessilibus tetragonis. *Willd. sp. pl. 5. p. 37.*

In moist shady places: Pennsylvania. 2. Aug. v. v. A very small, moss-like species, very much resembling the following.

- epodium.* 13. L. foliis bifariis subrotundo-ovatis acutis planis denticulatis cum superficialibus acuminatis alternantibus, caule ramoso basi radicante, spicis terminalibus sessilibus subsolitariis. *Willd. sp. pl. 5. p. 38.*

Icon. *Dill. musc. t. 64. f. 3.*

In shady woods: Pennsylvania to Florida. 2. July. v. v.

**** *Capsulis axillaribus.*

- lucidulum.* 14. L. foliis octofariis linearis-lanceolatis denticulatis acutis patentibus reflexis, caule adscendente bifido. *Willd. sp. pl. 5. p. 51.*

L. reflexum. Schkuhr filic. t. 159.

Icon. Dill. musc. t. 56. f. 2.

In low sphagnous grounds and on the banks of shady rivulets: Canada to Carolina. 4. July. v. v. Resembles *L. Selago*; it frequently bears bulbs instead of capsules.

715. BERNHARDIA. *Willd. act. acad. erford. 1802. p. 11.*

1. *B. caule nudo dichotomo ramisque triquetris.—Willd. sp. pl. 3. p. 56.* *dichotoma.*

Hoffmannia aphylla. Willd. in Roem. et Usteri bot. mag. 6. p. 17.

Psilotum triquetrum. Swartz. synop. filic. 187.

Psilotum floridanum. Mich. fl. amer. 2. p. 281.

Lycopodium nudum. Sp. pl. 1564.

Icon. Schkuhr filic. t. 165. b. Dill. musc. t. 64. f. 4.

On the cliffs of rocks, near the sea-coast, in Florida.

4. June. v. s.

716. OPHIOGLOSSUM. *Gen. pl. 1621.*

1. *O. spica caulina, fronde ovata obtusa, arcte reticulata. Willd. sp. pl. 5. p. 58.* *vulgatum.*

Icon. Schkuhr filic. t. 153. Fl. dan. 147.

In low grassy open places, in woods and on the sides of hills: New York to Pennsylvania. 4. May. v. v.

2. *O. spica caulina, fronde subcordato-ovata obtusa, radice bulbosa. Willd. sp. pl. 5. p. 60.* *bulbosum.*

O. crotalophoroides. Walt. fl. car. 256.

In low sandy grounds: New Jersey to Carolina. 4. May. v. v.

717. BOTRYCHIUM. *Swartz. synop. filic. 8.*

1. *B. scapo nudo, frondibus glabris radicalibus tripartito- bipinnatis, foliolis lunatis crenatis, spicis pinnatis.—Willd. sp. pl. 5. p. 63.* *fumarioides.*

B. lunarioides. Swartz. synop. filic. 172.

Botrypus lunarioides. Mich. fl. amer. 2. p. 274.

Osmunda biternata. Lam. encycl. 4. p. 608.

Icon. Schkuhr filic. t. 157.

In pastures and open woods: New York to Carolina. 4. June. v. v.

2. *B. scapo inferne unifrondoso, fronde subbiternata, foliolis oblongo-lanceolatis serrulatis basi dilatatis inaequaliter cordatis, spicis bipinnatis.—Willd. sp. pl. 5. p. 63.* *obliquum.*

CRYPTOGAMIA STACHYOPTRIDES. Botrychium.

In open woods: Pennsylvania and Virginia. ♀. June, July. v. v. Resembles the preceding very much, and is probably only a variety.

- dissectum.* 3. B. scapo inferne unifondoso, fronde tripartito-bipinnatifida, lacinis linearibus bipartitis apice bidentatis.—Willd. sp. pl. 5. p. 64.
Icon. Schkuhr filic. t. 158. Pluk. amalh. t. 427. f. 5.
In pastures and open dry woods: New York to Florida. ♀. June. v. v.

- virginicum.* 4. B. hirsutum; scapo medio frondoso, fronde subterna tripartito-bipinnatifida, foliolis inciso-pinnatifidis, lacinis obtusis subtridentatis, spicis bipinnatis divaricatis.—Willd. sp. pl. 5. p. 64.
Botrypus virginicus. Mich. fl. amer. 2. p. 274.
Osmunda virginica. Sp. pl. 1579.
Osmunda multifida. Gmel. nov. com. petrop. 12. t. 11. f. 1.
Icon. Schkuhr filic. t. 156.
In shady woods, on rich vegetable soil: Canada to Carolina. ♀. June, July. v. v. This is the largest of the species here described; it is known by the name of *Rattle Snake Fern*, probably from the circumstance of growing near the places where those venomous animals generally are found.

- gracile.* 5. B. glabrum; scapo medio frondoso, fronde tripartito-bipinnatifida, lacinis inciso-subpinnatifidis acutis subdentatis, spicis gracilibus pinnatis erectis.
In shady fertile woods: Virginia. ♀. June. v. v. This species approaches near to the preceding in its first appearance, but is by far a smaller and more slender plant, besides the other distinctions.

III. SCHISMATOPTERIDES.

718. HYDROGLOSSUM. Willd. sp. pl. 5. p. 77.

Ophioglossum. Linn.

- palmatum.* 1. H. caule flexuoso-scandente, frondibus conjugatis cordatis quinquelobo-palmatis, lobis lanceolatis integerimis obtusis obsolete sinnatis, spicillis terminalibus composite paniculatis oblongo-linearibus.—Willd. sp. pl. 5. p. 84.

Lygodium palmatum. Swarts. synop. filic. 154.
Cteisium paniculatum. Mich. fl. amer. 2. p. 275.
 Icon. Schkuhr filic. 140. Willd. act. acad. erford. 1802.
 t. 1. f. 2.

In low copse, climbing among small shrubs. ♀. July.
 v. v. This is the most beautiful and singular of all
 the North American ferns, and is a highly ornamental
 plant when cultivated in pots.

719. SCHIZÆA. Smith act. taur. 5. p. 419.

1. *S. fronde simplicissima linear-compressa, spicis conglobatis inflexis secundis.* *pusilla.*
 In barren sandy but moist grounds : New Jersey, Burlington county, near a place called Quaker Bridge. ♀.
 Aug. Sept. v. v. This singular little fern is very scarce, and so small that it generally escapes the notice of the botanist, unless accident points it out.

720. OSMUNDA. Gen. pl. 1622.

1. *O. frondibus sterilibus pinnatis, pinnis pinnatifidis, lacinia ovato-oblongis obtusis integerrimis, stipite lanato, fructificantibus bipinnatis lanuginosis.* —Willd. sp. *cinnamomea.*
 pl. 5. p. 98.
 Icon. Schkuhr filic. t. 146. Moris. hist. 3. s. 14. t. 4.
 f. 3.
 In low open woods and exsiccated swamps : New England to Florida. ♀. June—Aug. v. v. This is a fern of the size and habit of *Polyodium Filix mas*; the fertile stems are covered with a cinnamon-coloured down.
2. *O. frondibus pinnatis ferrugineo-tomentosis, pinnis pinnatifidis spica coarctato-fructificantibus.* —Willd. sp. *Claytoniana.*
 pl. 5. p. 96.
 In Virginia. Clayton. ♀. April. +. This is probably only a variety of the preceding. I have no specimen in my herbarium; but recollect very well that the fructiferous stems of that species very frequently grow out into leaves, which may have given rise to the formation of the present species.
3. *O. frondibus pinnatis glabris, pinnis oppositis pinnatifidis, lacinia oblongis acutiusculis integerrimis, pinnis aliquot intermediiis fructificantibus.* —Willd. sp. pl. 5. p. 96. *interrupta.*

O. basilaris. Sprengel. aul. 3. p. 160.

Icon. Schkuhr filic. t. 144.

In low and swampy grounds: Canada to Virginia, and in the western territories. $\frac{1}{4}$. June, July. v. v. This singular fern is about two feet high.

- spectabilis.* 4. *O. frondibus bipinnatis, pinnulis oblongis obtusiusculis argute serrulatis basi truncatis inaequalibus, omnibus alternis, panicula bipinnata fructificante in apice frondis.—Willd. sp. pl. 5. p. 98.*
- O. regalis β. Sp. pl. 1521. Mick. fl. amer. 2. p. 273.*
- Icon. Pluk. alm. t. 184. f. 4.
- In mountain swamps: Canada to Carolina. $\frac{1}{4}$. July. v. v. A very elegant species.
-

IV. FILICES.

721. ACROSTICHUM. Gen. pl. 1625.

curvum.

1. *A. frondibus pinnatis, pinnis alternis oblongo-lanceolatis integerrimis, basi cuneatis aequalibus, omnibus acuminatis, superioribus fructificantibus. Willd. sp. pl. 5. p. 116.*
- Icon. Schkuhr filic. t. 1. Petiv. fil. t. 8. f. 5. Plum. amer. t. 7. Pluk. alm. t. 288. f. 2.
- In deep swamps near the sea-coast: Florida. $\frac{1}{4}$. July. v. v. This is the largest of the North American ferns, the leaves being sometimes above five feet long.

722. POLYPODIUM. Swartz. synop. filic. 3.

vulgare.

1. *P. frondibus profunde pinnatifidis, lacinias linear-lanceolatis obtusis crenulatis approximatis, superioribus sensim minoribus, soris solitariis, caudice paleaceo. Willd. sp. pl. 5. p. 172.*

Icon. Schkuhr filic. t. 11. Plum. fil. t. 1. f. 2.

On rocks and old rotten trees: Canada to Carolina. $\frac{1}{4}$. July. v. v.

virginianum.

2. *P. frondibus profunde pinnatifidis, lacinias lanceolatis obtusis integerrimis approximatis, superioribus sensim minoribus, soris solitariis, caudice nudo. Willd. sp. pl. 5. p. 174.*

Icon. Petiv. filic. t. 7. f. 9. Plum. amer. t. 36. filic. t. 77.

On the trunks of trees : Virginia? ♀. July. +.
Willdenow doubts whether this is really a native of
Virginia, and I believe with much propriety, as I like-
wise never have seen any other species than *P. vulgare*
under the name of *P. virginicum*.

3. *P. frondibus profunde pinnatifidis, lacinii alternis linea-*
ribus integerrimis obtusis, superioribus sensim mino-
ribus, subtus stipiteque squamulosis, apice fructiferis,
soris solitariis. Willd. sp. pl. 5. p. 174. *incanum.*
P. ceteraccinum. Mich. fl. amer. 2. p. 271.
Acrostichum polypodioides. Sp. pl. 1525.
Icon. Schkuhr filic. t. 11. b.
On rocks and trunks of old trees : Virginia to Florida,
Kentucky and Tennessee ; on the rocks of the Natural
bridge, Virginia, and on the stems of trees in the
Dismal-swamp. Ph. July. v. v.
4. *P. frondibus bipinnatifidis glabriusculis, pinnis duabus hexagonopte-*
rimis infimis deflexis, lacinii lanceolatis obtusis ciliatis, pin-
narum inferiorum inciso-crenatis superiorum integerri-
mis, infimis adnato-decurrentibus, soris minutis soli-
tariis. Willd. sp. pl. 5. p. 200. *hexagonopterum.*
Icon. Pluk. alm. t. 284. f. 2. bona. Schkuhr filic.
t. 20. b.
In shady moist woods on fertile soil : New York to Carolina.
♀. July. v. v. The whole leaf forms a triangle in its circumference ; the stem is smooth.
5. *P. frondibus bipinnatifidis ciliatis, pinnis oppositis con-*
tiguis adnatis, pinnulis subellipticis, stipite paleaceo,
soris minutis. Willd. sp. pl. 5. p. 200. *connectile.*
In shady woods : Canada to New York. ♀. July. v. v.
Resembles the preceding.
6. *P. frondibus ternatis bipinnatis rectis rigidulis, lacinii*
obtusiusculis subintegerrimis, soris marginalibus con-
fluentibus. Willd. sp. pl. 5. p. 210. *calcoreum.*
P. Dryopteris. Bolton filic. 53. t. 1.
Nephrodium Dryopteris. Mich. fl. amer. 2. p. 270.
In shady beech-woods : Canada to Pennsylvania. ♀.
July. v. v. This is a very rare fern in Pennsylvania.
I only found it on the western mountains in deep
shady beech forests.

723. WOODSIA. *Brown in linn. trans. 11. p. 173.*

- hyperborea.* 1. *W. frondibus pinnatis, pinnis tripartitis vel pinnatifido-
incisis cuneiformibus obtusis dentatis subtus hirtis,
soris solitariis demum confluentibus.* — *Brown l. c.
cum icon.*
Polypodium hyperboreum. *Willd. sp. pl. 5. p. 197.*
Polypodium arvonicum. *Smith fl. brit. 3. p. 1115.*
Acrostichum ilvense. *Huds. angl. 451.*
Acrostichum alpinum. *Bolton filic. 76. t. 42.*
Acrostichum hyperboreum. *Liljeblad act. holm. 1793.
p. 201. t. 8.*
Icon. Schkuhr filic. t. 17. b. Pluk. phylogr. t. 89. f. 5.
Moris. hist. 3. s. 14. t. 3. f. 23.
 In the clefts of rocks : Canada, and on the high mountains of Pennsylvania and Virginia. ♀. July. v. v.
 A small fern growing in large tufts, and covered with long brown chaffy hair.
- ilvensis.* 2. *W. frondibus bipinnatifidis, laciiniis oblongis obtusis inferioribus repandis, superioribus integerrimis subtus hirtis, soris submarginalibus demum confluentibus, stipite superne villoso.* — *Brown l. c.*
Polypodium ilvense. *Willd. sp. pl. 5. p. 198.*
Polystichum Marantae. *Roth fl. germ. 3. p. 92.*
Acrostichum ilvense. *Sp. pl. 1528.*
Icon. Schkuhr filic. t. 19. Fl. dan. 391.
 On rocks : Canada to Virginia. ♀. July. v. v. Resembles the preceding very much ; but the leaves are smaller divided and covered with fine woolly hair, not chaffy as in the other.

724. ASPIDIUM. *Swartz. synop. filic. 3.*

- Nephrodium.* *Mich. fl. amer. 2. p. 266.*
 * *Frondibus ternatis.*
- cicutarium.* 1. *A. frondibus ternatis, foliolis pinnatifidis, laciiniis acuminatis sinuato-pinnatifidis integerrimis, lateralium infima et exteriore lacinia elongata, soris serialibus.* *Willd. sp. pl. 5. p. 215.*
Polypodium cicutarium. *Sp. pl. 1549.*
Polypodium appendiculatum. *Swartz. fl. ind. occid. 3. p. 1677.*
Icon. Pluk. alm. t. 289. f. 4. ♂ t. 296. f. 2.
 On rocks in the mountains of Virginia. ♀. +.

** *Frondibus pinnatis.*

2. A. frondibus pinnatis, pinnis lanceolatis falcatis acutis *acrostichoides*. ciliato-serratis, basi superiore mucronato-auriculatis, inferiore cuneatis, superioribus fructificantibus minoribus, stipite rachique paleaceis, soris solitariis demum confluentibus. *Willd. sp. pl. 5. p. 225.*

A. auriculatum. *Schkuhr filic. 31. t. 30. excl. synon.*

Nephrodium acrostichoides. Mich. fl. amer. 2. p. 267.

On rocks, in shady low places: New England to Carolina. $\frac{1}{2}$. June—Aug. v. v. Resembles *N. auriculatum*.

*** *Frondibus subbitpinnatis; indusiis dimidiatis reniformibus.*

3. A. frondibus pinnatis, pinnis linear-lanceolatis pinnatifidis, lacinia oblongis obtusiusculis subintegerrimis ciliatis, soris marginalibus, stipite levii.—*Willd. sp. pl. 5. p. 249.*

A. thelypteroides. *Swartz. synop. filic. 57.*

Nephrodium thelypteroides. Mich. fl. amer. 2. p. 267.

Polypodium noveboracense. Sp. pl. 1552.

Icon. *Schkuhr filic. t. 46.*

On river sides and the banks of ditches and ponds: Canada to Carolina. $\frac{1}{2}$. July. v. v.

noveboracense.

4. A. frondibus pinnatis, pinnis linear-lanceolatis pinnatifidis glabris, lacinia ovatis acutis integerrimis, soris marginalibus contiguis demum confluentibus. *Willd. sp. pl. 5. p. 249.*

Polypodium Thelypteris. Mant. 505.

Polystichum Thelypteris. Roth fl. germ. 3. p. 77.

Acrostichum Thelypteris. Sp. pl. 1528.

Icon. *Schkuhr filic. t. 52. Fl. dan. 760. Engl. bot. 1018.*

In ~~the~~ grassy fields and swamps: Canada to Virginia. $\frac{1}{2}$. July. v. v. It is very seldom found with fructifications; the leaves are smaller than in the preceding.

5. A. frondibus lanceolato-ovatis glabris pinnatis, pinnis subcordato-oblongis pinnatifidis, lacinia oblongis obtusis dentato-serratis, stipite paleaceo.—*Willd. sp. pl. 5. p. 252.*

Polypodium cristatum. Sp. pl. 1551.

Icon. *Schkuhr filic. t. 37. Afzel. act. holm. 1787. t. 9.*

Thelypteris.

cristatum.

- Callipteris.** β . A. majuscum; pinnis alternis, lacinis oblongis insqualiter adpresso-serratis, fronde apice fructificante.
Polypodium Callipteris. Ehrh. beitr. 3. p. 77.
Polystichum cristatum. Roth germ. 3. p. 84.
- lancastriense.** γ . A. pinnis suboppositis, lacinis triangulari-ovatis acute serratis, stipite nudo.—Willd. sp. pl. 5. p. 261.
Schkuhr filic. t. 41.
In moist rocky situations: New York to Virginia. $\frac{3}{4}$. July. v. v. Of middle size.
- ***** *Frondibus bipinnatis triplicato-pinnatis; industriis dimidiatis reniformibus.*
- obtusum.** 6. A. frondibus bipinnatis, pinnulis oblongis obtusis superioribus coadunatis dentato-crenatis, rachi superne pubescentes. Willd. sp. pl. 5. p. 254.
Polypodium obtusum. Swartz. synop. filic. 39. Schkuhr filic. 18.
Icon. Schkuhr filic. t. 21. & 43. b.
In clefts of rocks: Pennsylvania and Virginia. $\frac{3}{4}$. July.
v. v. A small species, not above four or five inches high.
- aculeatum.** 7. A. frondibus bipinnatis, pinnulis ovatis subfalcatis acutis mucronato-serratis, basi superiore truncatis, inferiore abbreviato-cuneatis, superioribus fructificantibus, stipite rachique paleaceis. Willd. sp. pl. 5. p. 258.
Polypodium aculeatum. Sp. pl. 1552.
Polystichum aculeatum. Roth fl. germ. 3. p. 79.
Icon. Schkuhr filic. t. 39. & 40. Bolt. filic. t. 56. Pluk. alm. t. 180. f. 1.
In shady rocky places, on the Green mountains, Vermont. $\frac{3}{4}$. Aug. v. v. The size of No. 5, of a shining and strong texture.
- marginale.** 8. A. frondibus bipinnatis, pinnulis oblongis obtusis decurrentibus crenatis, crenis baseos profundioribus, soris marginalibus, stipite paleaceo. Willd. sp. pl. 5. p. 259.
Polypodium marginale. Sp. pl. 1522.
Nephrodium marginale. Mich. fl. amer. 2. p. 267.
Icon. Schkuhr filic. t. 45. b.
In rocky shady places: Canada to Carolina. $\frac{3}{4}$. July.
v. v. Resembles the following.
- Filix mas.** 9. A. frondibus bipinnatis, pinnulis oblongis obtusis serratis, serraturis muticis, soris costæ mediæ approximatis, stipite rachique paleaceis. Willd. sp. pl. 5. p. 259.

- Polypodium Filix mas. Sp. pl. 1551.*
Polystichum Filix mas. Roth. fl. germ. 3. p. 82.
Icon. Schkuhr filic. t. 44. Bolt. filic. t. 24. Moris. hist. 3. s. 14. t. 3. f. 6.
8. A. pinnula eroso-serratis remotioribus.—*Schkuhr filic.* *t. 45.* *erosum.*
 In shady pine forests: New Jersey to Virginia. β . in Carolina. γ . July. $v. v.$ From two to three feet high; the leaflets are more obtuse, and more frequently doubly serrated, than in the European plant.
10. A. frondibus bipinnatis, pinnulis linearibus pinnatifido-incisis, lacinias apice submucronato-serratis, stipite paleaceo. *Willd. sp. pl. 5. p. 262.* *intermedium.*
 In Pennsylvania. *Muhlenberg.* γ . +. Resembles the following in several respects very much.
11. A. frondibus bipinnatis, pinnulis oblongis decurrentibus confluentibus inciso-dentatis, lacinias mucronato-serratis, stipite paleaceo, indusia glandulosis. *Willd. sp. pl. 5. p. 262.* *spinulosum.*
Polypodium spinulosum. Retz. prodr. fl. scand. n. 1295.
Polypodium cristatum. Hoffm. fl. germ. 2. p. 8.
Polystichum spinosum. Roth. fl. germ. 3. p. 91.
Icon. Schkuhr filic. t. 48. Fl. dan. 707. Fr. Mill. icon. t. 2. f. 2.
 In shady woods, in fertile soil: Pennsylvania to Virginia. γ . July. $v. v.$ A large species.
12. A. frondibus bipinnatis, pinnulis oblongis distinctis pinnatifido-incisis, lacinias mucronato-serratis, stipite paleaceo, indusia laevibus. *Willd. sp. pl. 5. p. 263.* *dilatatum.*
Polypodium dilatatum. Hoffm. fl. germ. 2. p. 7.
Polypodium aristatum. Villars fl. delph. 3. p. 844.
Polypodium cristatum. Huds. angl. 457.
Polystichum multiflorum. Roth. fl. germ. 3. p. 87.
Nephrodium cristatum. Mich. fl. amer. 2. p. 269.
Icon. Schkuhr filic. t. 47. Bolt. filic. t. 23. Fr. Mill. ic. t. 2. f. 4. Plak. alm. t. 181. f. 2.
 In shady rocky woods: Pennsylvania and Virginia. γ . July. $v. v.$ Resembles *A. Filix femina*; it is larger, broader, and more compound in its leaves.
- ***** *Frondibus bipinnatis triplicato-pinnatisve; indusie lateribus.*
13. A. frondibus bipinnatis oblongo-lanceolatis, pinnulis oppositis oblongis obtusis serratis, inferioribus pinnatif. *bulbiferum.*
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dis, rachi bulbifera, soris subrotundis. Willd. sp. pl. 5. p. 275.

Polypodium bulbiferum. Sp. pl. 1553.

Nephrodium bulbiferum. Mich. fl. amer. 2. p. 268.

Icon. Schkuhr filic. t. 57. Corn canad. 5. Moris. hist. 3. s. 14. t. 3. f. 10.

In shady woods, about rocks : Canada to Pennsylvania. 4. July. v. v. The leaf is narrow, and produces generally some small bulbs on its midrib.

asplenoides. 14. A. frondibus bipinnatis, pinnulis linear-lanceolatis inciso-serratis, serraturis bi- s. tridentatis terminalibus acutioribus, soris oblongis lunatis. Willd. sp. pl. 5. p. 276.

Nephrodium asplenoides. Mich. fl. amer. 2. p. 268.

Polypodium pensylvanicum. Muell. in litt.

Asplenium Athyrium. Sprengel. anleit. 3. p. 113.

Icon. Schkuhr filic. t. 78.

In shady woods, on the banks of rivulets and ditches : New England to Carolina. 4. July. v. v. A tall species, very much resembling the following in many respects.

Filix femina. 15. A. frondibus bipinnatis, pinnulis oblongo-lanceolatis inciso-serratis, serraturis bi- s. tridentatis acutiusculis, soris oblongis rectis. Willd. sp. pl. 5. p. 276.

A. alpestre. Schkuhr filic. p. 58.

Polypodium Filix femina. Sp. pl. 1551.

Polypodium molle. Schreb. spicil. 70.

Polypodium dentatum, incisum et trifidum. Hoffm. fl. germ 2. p. 7.

Athyrium molle, trifidum, ovatum et *Filix femina.* Roth. fl. germ. 3. p. 61—65.

Icon. Schkuhr filic. t. 58. 59. & 60. Pluk. phytogr. t. 180. f. 4. Moris. hist. 3. s. 14. t. 3. f. 8.

In low shady grounds : Canada to Virginia. 4. July. v. v.

angustum. 16. A. frondibus bipinnatis, pinnulis lanceolatis inciso-serratis, serraturis subbidentatis, infima superiore elongata, soris oblongis sublunatis. Willd. sp. pl. 5. p. 277.

Nephrodium Filix femina. Mich. fl. amer. 2. p. 268.

In shady low woods : Canada to Pennsylvania. 4. July. v. v. Resembles the preceding.

punctilobum. 17. A. frondibus bipinnatis, pinnulis decurrentibus ovato-oblongis pinnatifidis, laevis subquadridentatis, sore

- solitario instructis, rachibus pubescentibus, stipite glabro. *Willd. sp. pl. 5. p. 279.*
- Nephrodium punctilobulum. Mich. fl. amer. 2. p. 268.*
In shady woods, on the banks of small rivulets : Canada to Virginia. \mathcal{U} . July. v. v. From two to three feet high.
18. A. frondibus bipinnatis, pinnulis decurrentibus ovato-oblongis pinnatifidis, laciinis dentatis, soris sparsis. *atomarium. Willd. sp. pl. 5. p. 279.*
In Pennsylvania, *Muhlenberg.* \mathcal{U} . +. Not much above a span high ; fructification small.
19. A. frondibus bipinnatis, pinnulis ovatis decurrentibus dentatis, soris solitariis juxta dentes pinnularum. *Willd. sp. pl. 5. p. 279.* *tenue.*
Nephrodium tenue. Mich. fl. amer. 2. p. 269.
In clefts of rocks : Canada to Virginia. \mathcal{U} . July. v. v. A small species ; fructifications large.
20. A. frondibus bipinnatis, pinnulis subtus paleaceo-setosis oblongis obtusis crenatis coadunatis, soris demum confluentibus. *Willd. sp. pl. 5. p. 282.*
Nephrodium rufidulum. Mich. fl. amer. 2. p. 269.
On rocks : Canada to Pennsylvania. \mathcal{U} . July. v. v. A small species, growing in large tufts ; it resembles *Woodsia hyperborea* very much.
725. ONOCLEA. *Willd. in mag. ges. naturf. fr. z. berl. 1809. p. 160.*

1. O. frondibus sterilibus pinnatis, pinnis lanceolatis acutis inciso-dentatis, superioribus coadunatis, fructificantibus bipinnatis, pinnulis recurvato-globosis glabris, rachi glabra.—*Willd. sp. pl. 5. p. 287.*
Icon. *Schkuhr filic. t. 102. Pluk. mant. t. 404. f. 2.*
Brynn. cent. t. 56. f. B.
In low pastures and open woods : New York to Florida. \mathcal{U} . July. v. v. About a foot high ; leaves pale green.
2. O. frondibus sterilibus pinnatis, pinnis oppositis pinnatifidis, lobis rotundatis : inferioribus sensim minoribus, superioribus coadunatis, fructificantibus bipinnatis, pinnulis incisis recurvato-globosis villosis, rachi squamuosa. —*Schkuhr filic. p. 95. t. 103.* *obtusilobata.*
In low grounds : Pennsylvania. \mathcal{U} . July. v. v. Not so large as the preceding.

726. STRUTHIOPTERIS. *Willd. in mag. ges. nat. fr. z. berl.* 1809. *p. 160.*

- pensylvanica.* 1. 3. frondibus sterilibus bipinnatifidis, lacinias integerimis obtusis, infima elongata acuta. *Willd. sp. pl. 5. p. 289.*
Onoclea nodulosa. *Schkuhr filic. p. 96. t. 104.*
 In Pennsylvania. *Muhlenberg.* 4. +. Resembles *S. germanica.*

727. ASPLENIUM. *Swartz. synop. filic. p. 4.*

- rhizophyllum.* 1. A. frondibus lanceolatis stipitatis subcrenatis, basi auriculato-cordatis, apice longissimo lineariforme radicans. *Willd. sp. pl. 5. p. 305.*
 Icon. *Pluk. alm. t. 105. f. 3.* *Petiv. gazoph. t. 105. f. 7.*
Moris. hist. 3. s. 14. t. 5. f. 14.
 On wet shady rocks: Canada to Carolina. 4. July.
 v. v. This fern is highly ornamental to rock-works,
 and very singular in its striking root at the elongated
 points of the leaves.
2. A. frondibus pinnatis, pinnis alternis, superioribus suboppositis, lineariforme subrepandis, basi superiore truncatis, inferiore leviter rotundatis. *Willd. sp. pl. 5. p. 313.*
A. pycnocarpon. *Sprengel. anleit. 3. p. 112.*
 Icon. *Schkuhr filic. t. 67.* ♂ 69. *Moris. hist. 3. s. 14. t. 2. f. 25.*
 In shady woods, on the banks of rivers: western parts
 of New York and Pennsylvania. 4. July. v. v. A very elegant fern about a foot high.
- ebeneum.* 3. A. frondibus pinnatis, pinnis sessilibus lanceolatis serratis basi cordatis, sursum auriculatis. *Willd. sp. pl. 5. p. 329.*
 A. polypodioides. *Swartz. synop. filic. 79.* ♂ 272.
 A. trichomanoides. *Mich. fl. amer. 2. p. 265.*
Acrostichum platyneuron. *Sp. pl. 1527. excl. synon.*
 Icon. *Schkuhr filic. t. 73.* *Pluk. alm. t. 287. f. 2. et t. 89. f. 8.* *Moris. hist. 3. s. 14. t. 2. f. 12.*
 In clefts of rocks: New England to Carolina. 4. July.
 v. v. A small species.
- melanocau-*
lon. 4. A. frondibus pinnatis, pinnis subrotundis obtusis crenatis basi cuneatis, stipite discolore. *Willd. enum. 1072.*
Willd. sp. pl. 5. p. 332.

A. trichomanes. *Mich. fl. amer.* 2. p. 264.

On rocks: Canada to Carolina. Ʌ. July. v. v. Very small: stem polished, black.

5. A. frondibus pinnatis, pinnis sessilibus lanceolatis acuminatis profunde pinnatifidis, laciniis oblongis obtusis obtuse-serratis, soris parallelis demum confluentibus. —*Willd. sp. pl.* 5. p. 336.

A. acrostichoides. *Swartz. synop. filic.* 82. ♂ 275.

Icon. *Schkuhr filic.* t. 76. b.

In shady woods on the sides of rivulets: Pennsylvania to Carolina. Ʌ. July. v. v. Resembles *Aspidium Thelypteris* very much; it is from eighteen inches to two feet high.

6. A. frondibus basi bipinnatis, apice simpliciter pinnatis, pinnae rhomboe-oblongis obtusis, apice obtuse dentulatis. —*Willd. sp. pl.* 5. p. 341.

Icon. *Schkuhr filic.* t. 80. b. *Fl. dan.* 190.

In clefts of rocks: New York to Carolina. Ʌ. July. v. v. The American plant is very small, scarcely ever exceeding an inch or two in height.

7. A. frondibus glabris bipinnatis, pinnae lanceolatis pinnatifidis, laciniis tri-vel bidentatis.—*Willd. sp. pl.* 5. p. 342.

A. Adiantum nigrum. *Mich. fl. amer.* 2. p. 265.

In clefts of rocks, on the mountains of Virginia and Carolina. Ʌ. July. v. v. A much smaller plant than *A. nigrum*, to which it has some resemblance.

728. SCOLOPENDRIUM. *Smith act. taur.* 5. p. 410. t. 9. f. 2.

1. S. frondibus lato-lanceolatis basi cordatis, stipite paleaceo. *officinarum*. —*Willd. sp. pl.* 5. p. 348.

Asplenium Scolopendrium. *Sp. pl.* 1537.

Icon. *Schkuhr filic.* t. 83. *Pluk. phytopogr.* t. 248. f. 1.

In shady woods, among loose rocks in the western parts New York, near Onondago, on the plantations of J. Geddis, Esq. Ʌ. July. v. v. This species I have seen in no other place but that here mentioned, neither have I had any information of its having been found in any other part of North America.

729. PTERIS. *Gen. pl.* 1626.

- pedata.* 1. *P. frondibus profundissime quinquelobo-palmatis, lobis pinnatifidis, laciniis linear-lanceolatis acutis, infima lobi intermedii utrinque pinnatifida, lobo intermedio basi longissime cuneato, sinubus acutis.* — *Willd. sp. pl. 5. p. 358.*
Icon. Schkuhr filic. t. 100. Plum. amer. t. 34. fil. t. 152.
Petiv. filic. t. 8. f. 12. Pluk. alm. t. 286. f. 5.
On rocks: Virginia. 4. July. v. s. About six inches high.
- atropurpurea.* 2. *P. frondibus pinnatis, pinnis inferioribus ternatis pinna-tive lanceolatis obtusis, basi obtuse truncatis subcor-datisve.* *Willd. sp. pl. 5. p. 375.*
- venosa.* *a.* *P. pinnulis subtus venosis, stipite angulato.*
Icon. Schkuhr filic. t. 101. Pluk. mdnt. t. 349. f. 1.
- punctata.* *β.* *P. pinnulis subtus punctatis, stipite terete.*
P. spiculata. Schkuhr filic. t. 100.
In clefts of rocks: Pennsylvania to Carolina. 4. July.
v. v. About a span high; grayish-green with dark purple stems.
- gracilis.* 3. *P. frondibus pinnatis, pinnis lanceolatis obtusis alternis sessilibus, inferioribus pinnatifidis, fertilibus integerrimi-s, sterilibus crenatis rotundato-obtusis.* *Willd. sp. pl. 5. p. 376.*
On rocks in Canada. Michaux. 4. July. v. s. Not above four inches high; stems yellowish-green, smooth and shining.
- caudata.* 4. *P. fronde pinnato-tripartita, ramis sterilibus bipinnatis, pinnulis linearibus elongatis obtusis integerrimis, inferioribus bipinnatifidis, fructificantibus pinnatis, pinnis remotiusculis inferioribus basi pinnatifido-den-tatis.* — *Willd. sp. pl. 5. p. 401.*
Icon. Jacq. ic. rar. 3. t. 645. Plum. amer. t. 22. filic. t. 29.
In shady stony woods, on the side of rivulets: Pennsylvania to Carolina. 4. Aug. v. v.
- aquilina.* 5. *P. fronde pinnato-tripartita, ramis sterilibus bipinnatis, pinnis linear-lanceolatis obtusis pinnatifido-dentatis, fructificantibus pinnatis, pinnulis pinnatifidis, laciniis acutiusculis, omnibus ciliatis.* — *Willd. sp. pl. 5. p. 402.*
Icon. Schkuhr filic. t. 95. 96. b. Plum. filic. t. A. f. 1.
In dry barren woods: Canada to Florida. 4. Aug.

v. v. It deviates in some respects from the European plant, but is not sufficiently distinct to form a separate species, as it is well known how much the European species itself assumes different appearances in different soils.

730. VITTARIA. *Smith act. taur. 5. p. 413. t. 9. f. 5.*

1. *V. frondibus linearibus longissimis pendulis, soris solitariis intra marginalibus.* *Willd. sp. pl. 5. p. 404.*
V. angustifrons. *Mich. fl. amer. 2. p. 261.*
Pteris lineata. *Sp. pl. 1530.*
Icon. Schkuhr filic. t. 101. b. Plum. amer. t. 41. filic. t. 143. Petiv. filic. t. 14. f. 3.
 On the banks of the rivulet Aisa-hatcha, Florida. *Michaux.* 4. +. The leaves resemble those of a common grass.

731. BLECHNUM. *Gen. pl. 1627.*

1. *B. frondibus sterilibus pinnatifidis, laciniis lanceolatis obtusiusculis parallelis, fructiferis pinnatis, pinnis linearibus acuminatis.* *Willd. sp. pl. 5. p. 408.*
B. Spicant. *Roth. fl. germ. 3. p. 44.*
Onoclea Spicant. *Hoffm. fl. germ. 2. p. 11.*
Osmunda Spicant. *Sp. pl. 1522.*
Icon. Schkuhr filic. t. 110. Fl. dan. 99. Bolt. filic. t. 6. Moris. hist. 3. s. 14. t. 2. f. 23.
 On the north-west coast. *M. Lewis.* 4. Aug. v. s. in *Herb. Lewis.*
 2. *B. frondibus pinnatis, pinnis lanceolatis utrinque attenuatis basi decurrentibus argute serratis.* *Willd. sp. pl. 5. p. 411.*
 On the banks of the rivulet Aisa-hatcha, Florida. *Michaux.* 4. +.

732. WOODWARDIA. *Smith act. taur. 5. p. 411. t. 9. f. 5.*

1. *W. frondibus sterilibus pinnatifidis, laciniis lanceolatis repandis tenuissime serrulatis, fructiferis pinnatis, pinnis linearibus integerrimis acutis.* *Willd. sp. pl. 5. p. 416.*
W. angustifolia. *Smith act. taur. 5. p. 411.*
W. floridana. *Schkuhr filic. p. 103. t. 111.*
Onoclea nodulosa. *Mich. fl. amer. 2. p. 272. Swartz. synop. filic. 111.*

Acrostichum areolatum. *Sp. pl.* 1526.

Osmunda caroliniana. *Walt. fl. car.* 257.

Icon. *Schkuhr l. c.* *Pluk. phytogr.* t. 399. f. 1. *Moris. hist.* 3. s. 14. t. 2. f. 24.

In cedar and cypress-swamps: New Jersey to Florida.
U. Aug. v. v. About a foot high.

virginica.

2. *W. frondibus glaberrimis pinnatis, pinnis sessilibus lanceolatis pinnatifidis, laciinis oblongis obtusis crenulatis, fructiferis elongatis, stipite glabro tereti*.—*Willd. sp. pl.* 5. p. 418.

W. Banisteriana. *Mich. fl. amer.* 2. p. 263.

Blechnum virginicum. *Mant.* 307.

Blechnum carolinianum. *Walt. fl. car.* 257.

Icon. *Pluk. alm.* t. 179. f. 2.

In swamps and shady woods: Virginia and Carolina. U. July. v. v. Above a foot high.

thelypteroides.

3. *W. frondibus pinnatis, pinnis sessilibus basi villosis linearie-lanceolatis pinnatifidis, laciinis sterilium oblongis obtusiusculis, fertilium abbreviato-triangularibus acutis, omnibus integerrimis, stipite pubescente angulato*. In sandy swamps: South Carolina, near Charlestown. U. July. v. v. Resembles the preceding, but is not half the size.

733. ADIANTUM. *Gen. pl.* 1683.

pedatum.

1. *A. frende pedata, ramis pinnatis, pinnis dimidiatis oblongis lunatis margine superiore incisis, laciinis sterilibus dentatis, fertilibus integerrimis, soris linearibus, stipite glabro*. *Willd. sp. pl.* 5. p. 438.

Icon. *Schkuhr filic.* t. 115. *Pluk. alm.* t. 124. f. 2.
Corn. canad. t. 6.

In shady woods: Canada to Virginia. U. July. v. v.
A very elegant fern.

734. CHEILANTHES. *Swartz. synop. filic.* p. 5.

vestita.

1. *C. frondibus bipinnatis utrinque hirtis, pinnulis pinnatifidis, laciiniis oblongis obtusis integerrimis, stipite rachibusque hirtis*. *Willd. sp. pl.* 5. p. 458.

Adiantum vestitum. *Sprengel. anleit.* 3. p. 122.

Aspidium lanosum. *Swartz. synop. filic.* p. 58.

Nephrodium lanosum. *Mich. fl. amer.* 2. p. 270.

Icon. *Schkuhr filic.* t. 124.

On rocks: Pennsylvania to Virginia and on the Missouri.
U. v. v. A handsome very small fern, covered
 with long brownish hair.

2. *C. frondibus triplicato-pinnatis, pinnulis ovalibus distinc-*
 tis apice crenatis aut emarginatis subtus dealbatis.

dealtata.

On rocks, on the banks of the Missouri. *U. v. s.*
 A very delicate small fern, very much resembling
C. tenuifolia.

735. DICKSONIA. *L'Herit. sert. angl.* 30.

1. *D. frondibus bipinnatis, pinnulis oblongo-lanceolatis pin-*
 natifidis, laciniis margine superiore inciso-dentatis, ra-
 chibus pilosiusculis. Willd. sp. pl. 5. p. 484.

D. pubescens. Schkuhr filic. p. 125. t. 131.

Polypodium pilosiusculum. Muhl. in litt.

In shady woods, among rocks: Pennsylvania and Virginia.

U. v. v. A foot or more high, resembling *Aspidium*
dilatatum.

736. HYMENOPHYLLUM. *Smith act. taur.* 5. p. 418.

1. *H. frondibus pinnatis, pinnis infimis majoribus, supe-*
 rioribus sensim minoribus pinnatifidis, laciniis linearis-
 bus obtusis bifidis ciliatis, venis hirtis, rachi stipiteque
 alatis ciliatis. Willd. sp. pl. 5. p. 519.

ciliatum.

Trichomanes ciliatum. Swartz. prodr. 136.

In shady forests, on the trunks of old trees: Pennsylvania and Virginia. *U. v. v.*

V. HYDROPTERIDES.

737. ISOERTES. *Gen. pl.* 1620.

1. *I. frondibus subulatis semiteretibus. Willd. sp. pl. 5.*
p. 534.

lacustris.

Icon. Schkuhr filic. t. 173. Fl. dan. 191. Dill. musc.
t. 80. f. 1.

On rocks, on the bottom of rivers: New York, in the
 Oswego river, near the Falls. *U. v. v.* This singular plant,
 resembling a zoophyte, is about two inches
 high.

738. SALVINIA. *Gen. pl.* 1617.*natans.*

1. *S. foliis ellipticis obtusis supra fasciculato-setosis, petiolis pilosis, fructibus subsessilibus aggregatis.* *Willd. sp. pl.* 5. p. 536.

Marsilea natans. *Sp. pl.* 1562.

Icon. Schkuhr filic. t. 173. *Lam. illust.* 863.

Floating, like *Lemna*, on the surface of stagnant waters : in several of the small lakes in the western parts of New York and Canada. ☐. v. v.

739. AZOLLA. *Lam. encycl.* 1. p. 340.*caroliniana.*

1. *A. foliis imbricatis ovato-oblongis obtusis patentibus subtus rubris.* — *Willd. sp. pl.* 5. p. 541.

Floating on the waters of Lake Ontario. ☐. v. v.
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Fire-weed.	<i>Senecio hieracifolius.</i>	521
Fir-tree.	<i>Pinus.</i>	669
Flag.	<i>Iris.</i>	29
— Sweet-	<i>Acorus.</i>	235
Flax.	<i>Linum.</i>	210
Flea-bane.	<i>Conyza.</i>	523
Flix-weed.	<i>Sisymbrium Sophia.</i>	440
Flower-de-luce.	<i>Iris.</i>	29
Flowering-fern.	<i>Osmunda.</i>	657
Fluellin.	<i>Antirrhinum Elatine.</i>	421
Flux-weed.	<i>Geranium maculatum.</i>	440
Fly-catch-bush.	<i>Bejaria.</i>	362
Fox-tail-grass.	<i>Alopecurus.</i>	65
Fringe-tree.	<i>Chionanthus.</i>	7
Full-fern.	<i>Acrostichum.</i>	658
Fumatory.	<i>Fumaria. Corydalis.</i>	468
Fuller's Thistle.	<i>Dipsacus.</i>	96
 Garlic. Wild-	<i>Allium.</i>	222
Gentian.	{ <i>Gentiana.</i>	185
	<i>Triosteum.</i>	162
Germaneder.	<i>Teucrium.</i>	405
Ginger. Wild-	<i>Asarum.</i>	596
Ginseng.	<i>Panax.</i>	191
Glass-wort.	<i>Salicornia.</i>	2
Globe-flower.	<i>Trollius.</i>	391
Goat's Rue.	<i>Tephrosia.</i>	489
Golden-rod.	<i>Solidago.</i>	535
— pert.	<i>Gratiola aurea.</i>	92
Goldilocks.	{ <i>Chrysocoma.</i>	517
	<i>Ranunculus Auricomus.</i>	391
Gooseberry.	<i>Ribes.</i>	163
Goose-foot.	<i>Chenopodium.</i>	197
— grass.	<i>Galium.</i>	102
Grape-vine.	<i>Vitis.</i>	169
Grass of Parnassus.	<i>Parnassia.</i>	208
— Wrack.	<i>Zastera.</i>	2
Gravel-wort.	<i>Monarda punctata.</i>	18
Green Dragon.	<i>Arum Dracunculus.</i>	400
Gromwel.	<i>Iathospermum.</i>	131
Ground Ivy.	{ <i>Glichoma.</i>	408
	{ <i>Epigaea.</i>	297
Ground Pine.	{ <i>Lycopodium dendroideum</i>	653
	<i>Ajuga Chamæpithys.</i>	404

Ground Cherry.	<i>Physalis.</i>	157
Groundsel.	<i>Senecio.</i>	528
— tree.	<i>Baccharis.</i>	523
Gelder-rose, Ameri- can.	{ <i>Viburnum.</i> <i>Spiraea opulifolia.</i>	201 342
Gum-tree. Sour- —. Sweet-	{ <i>Nyssa villosa.</i> <i>Liquidambar.</i>	177 635
Hag-berry.	<i>Celtis.</i>	200
Hackmatack.	<i>Pinus pendula.</i>	639
Hair-grass.	<i>Aira.</i>	76
Hard-grass.	<i>Rottboellia.</i>	88
Hart's-tongue.	<i>Scalopendrium.</i>	667
Hawkweed.	<i>Hieracium.</i>	502
Hawthorn.	<i>Crataegus.</i>	376
Hazel-nut.	<i>Corylus.</i>	634
Heal-all.	{ <i>Galax.</i> <i>Viola clandestina.</i>	446 171
Heart-seed.	<i>Cardiospermum.</i>	273
Heart's-ease.	<i>Viola.</i>	171
Heath. Yellow-	{ <i>Hudsonia.</i> <i>Hypericum densiflorum.</i>	364 376
Heliotrope.	<i>Heliotropium.</i>	130
Hellebore. Green-	<i>Veratrum viride.</i>	242
Hemlock.	<i>Conium.</i>	195
—. Spruce-	<i>Pinus canadensis.</i>	639
—. Water-	<i>Phellandrium.</i>	195
Hemp.	<i>Cannabis.</i>	199
—. Indian-	<i>Apocynum.</i>	179
—. River-	<i>Acnida.</i>	208
Henbane.	<i>Hyoscyamus.</i>	141
Henbit.	<i>Lamium amplexicaule.</i>	406
Heptree.	<i>Rosa.</i>	344
Herb Pennet.	<i>Geum.</i>	351
— Christopher.	<i>Actaea.</i>	366
— Robert.	<i>Geranium Robertianum.</i>	449
High-taper.	<i>Verbascum.</i>	142
Hickory or Hickory.	<i>Juglans.</i>	636
Hobble-bush.	<i>Viburnum lantanoides.</i>	201
Hog-nut.	<i>Juglans porcina.</i>	638
— weed.	<i>Ambrosia.</i>	580
Holly.	<i>Ilex.</i>	117
Hone-wort.	<i>Sison.</i>	194
Honey-suckle.	{ <i>Caprifolium.</i> <i>Aquilegia.</i>	160 372
—. Upright-	<i>Azalea.</i>	151
Hoop-Ash.	<i>Celtis.</i>	200

Hop.	<i>Humulus.</i>	199
— Hornbeam.	<i>Ostrya.</i>	623
Horehound.	<i>Marrubium.</i>	408
— Water-	<i>Lycopus.</i>	16
Hornbeam-tree.	<i>Carpinus.</i>	623
Hornwort.	<i>Ceratophyllum.</i>	370
Horse-tail.	<i>Equisetum.</i>	651
Horse-weed.	<i>Collinsonia.</i>	20
Hound's-tongue.	<i>Cynoglossum.</i>	133
Huckleberry.	<i>Vaccinium.</i>	284
— Bastard-	<i>Andromeda.</i>	290
Hyssop.	<i>Hyssopus.</i>	406
— Hedge-	<i>Gratiola.</i>	12
Jacob's Ladder.	<i>Polemonium.</i>	151
Jalap.	{ <i>Ipomoea Jalapa.</i> { <i>Convolvulus panduratus.</i>	147 143
Jasmine. Carolina-	<i>Gelsemium.</i>	184
Jesuit's Bark-tree. Bastard-	<i>Iva.</i>	580
Indian Corn.	<i>Zea.</i>	46
— Cucumber.	<i>Medeola.</i>	244
— Fig.	<i>Cactus.</i>	327
— Millet.	<i>Sorghum.</i>	78
— Physic.	{ <i>Magnolia oiriculata.</i> { <i>Spiraea trifoliata.</i>	362 341
— Rice.	<i>Zizania.</i>	60
— Reed or Shot.	<i>Canna.</i>	585
Indigo.	<i>Indigofera.</i>	448
— Bastard-	<i>Amorpha.</i>	466
Ink-berry.	<i>Prinos glaber.</i>	220
Ipecacuanha.	{ <i>Asclepias tuberosa.</i> { <i>Euphorbia.</i> { <i>Spiraea trifoliata.</i>	163 605 341
Iron-weed.	{ <i>Ambrosia.</i> { <i>Verbena.</i>	580 415
— wood.	<i>Ostrya.</i>	623
Judas-tree.	<i>Cercis.</i>	308
Juniper.	{ <i>Juniperus.</i> { <i>Cupressus.</i>	646 645
Kidney Bean.	<i>Phaseolus.</i>	469
Knawel.	<i>Scleranthus.</i>	315
Knot-grass.	{ <i>Illecebrum.</i> { <i>Polygonum aviculare.</i>	445 369
Ladies' Bedstraw.	<i>Galium.</i>	102
— Mantle.	<i>Alchemilla.</i>	112

Ladies' Slipper.	<i>Cypripedium.</i>	594
——— Smock.	<i>Cardamine.</i>	439
——— Traces.	<i>Neottia.</i>	589
Lamb's Quarters.	<i>Chenopodium viride.</i>	198
Larch-tree.	<i>Pinus pendula.</i>	639
Larkspur.	<i>Delphinium.</i>	371
Laurel.	<i>Laurus.</i>	275
——— Big-	<i>Magnolia grandiflora.</i>	380
——— Mountain-	<i>Rhododendron.</i>	297
——— Sheep-	<i>Kalmia angustifolia.</i>	296
——— Small-	——— <i>latifolia.</i>	
——— Swamp-	<i>Magnolia glauca.</i>	381
Lavender Cotton.	<i>Santolina a.</i>	520
——— Sea-	<i>Statice.</i>	212
Leather-wood.	<i>Dirca.</i>	268
Lettuce.	<i>Lactuca.</i>	500
Lever-wood.	<i>Ostrya.</i>	623
Lily.	<i>Lilium.</i>	221
——— Water-	{ <i>Nymphaea.</i>	368
——— of the Valley.	<i>Nuphar.</i>	369
——— Atamasco-	<i>Convallaria.</i>	232
Lime or Linden-tree.	<i>Amaryllis.</i>	222
Lion's-foot.	<i>Tilia.</i>	362
Liquorice.	<i>Prenanthes.</i>	449
Liver-wort.	<i>Glycyrrhiza.</i>	480
Lizard's-tail.	<i>Hepatica.</i>	391
Loblolly-bay.	<i>Laururus.</i>	252
Locust-tree.	<i>Gordonia.</i>	451
——— Honey-	<i>Robinia.</i>	487
Loose-strife.	<i>Gleditschia.</i>	221
Lovage.	<i>Lysimachia.</i>	135
Louse-wort.	<i>Ligusticum.</i>	193
Lung-wort.	<i>Pedicularis.</i>	424
Lupine.	<i>Pulmonaria.</i>	130
Lyme-grass.	<i>Lupinus.</i>	487
	<i>Elymus.</i>	89
Madder.	<i>Rubia.</i>	102
Madwort.	<i>Alyssum.</i>	434
Mahogany. Mountain-	<i>Betula lenta.</i>	621
Maiden-hair.	<i>Adiantum.</i>	670
Mallow.	<i>Malva.</i>	454
Man's-beard.	<i>Andropogon.</i>	74
Maple-tree.	<i>Acer.</i>	265
Mare's-tail.	<i>Hippuris.</i>	3
Marjoram.	<i>Origanum.</i>	411

Martagon.	<i>Lilium.</i>	229
Marygold. Bur-	<i>Bidens.</i>	566
_____. Marsh-	<i>Caltha.</i>	389
May-apple.	<i>Podophyllum.</i>	366
____ bush.	<i>Pyrus Botryapium.</i>	339
____ weed.	<i>Anthemis.</i>	562
Meadow-grass.	<i>Poa.</i>	72
____ rue.	<i>Thalictrum.</i>	388
____ sweet.	<i>Spiraea.</i>	388
Medick.	<i>Medicago.</i>	490
Melic-grass.	<i>Melica.</i>	77
Melilot.	<i>Melilotus.</i>	477
Mercury. American-	<i>Lobelia siphilitica.</i>	447
Milfoil.	<i>Achillea.</i>	562
_____. Hooded-	<i>Utricularia.</i>	15
_____. Water-	<i>Myriophyllum.</i>	274
Milk-weed.	<i>Prenanthes.</i>	498
____ wort.	<i>Polygala.</i>	464
Millet-grass.	<i>Milium.</i>	62
Mint.	<i>Mentha.</i>	405
_____. Horse or Moun- tain.	<i>Monarda.</i>	16
Mitre-flower.	{ <i>Pycnanthemum.</i>	409
Misle-toe.	<i>Dodecatheon.</i>	136
Moccasin-flower.	<i>Viscum.</i>	114
Mocker-nut.	<i>Cypripedium.</i>	594
Mock Orange.	<i>Juglans.</i>	636
Monk's-hood.	<i>Philadelphus.</i>	329
Monkey-flower.	<i>Aconitum.</i>	372
Moon-seed.	<i>Mimulus.</i>	426
Moose-wood.	<i>Menispermum.</i>	370
Mouse-ear Chickweed.	<i>Acer striatum.</i>	267
Mugwort.	<i>Cerastium.</i>	320
Mulberry.	<i>Artemisia vulgaris.</i>	322
Mullein.	<i>Morus.</i>	639
Mustard. Hedge-	<i>Verbascum.</i>	142
_____. Indian-	<i>Erysimum.</i>	436
_____. Tower-	<i>Dentaria.</i>	438
Myrtle. Candleberry.	{ <i>Turritis.</i>	438
_____. Wax-	<i>Myrica.</i>	620
_____. Sand-	<i>Ammyrsine.</i>	301
Nettle.	<i>Urtica.</i>	112
_____. Dead-	<i>Galeopsis.</i>	407
_____. Hedge-	<i>Stachys.</i>	407
Nettle-tree.	<i>Celtis.</i>	200

Nightshade.	<i>Solanum.</i>	156
—. Enchanter's-	<i>Ciræa.</i>	21
Nonsuch.	<i>Medicago Lupulina.</i>	490
Nut-grass.	<i>Cyperus.</i>	50
Oak.	<i>Quercus.</i>	625
Oat. Sea-side-	<i>Uniola.</i>	82
Oat-grass.	<i>Avena.</i>	85
Ogeechee-lime.	<i>Nyssa candidans.</i>	177
Oil-nut.	{ <i>Hamiltonia.</i>	178
	<i>Juglans cinerea.</i>	636
Okro.	<i>Hiliscus esculentus.</i>	456
Olive-tree.	<i>Olea.</i>	7
Orache.	<i>Atriplex.</i>	199
Orchard-grass.	<i>Dactylis.</i>	84
Orpine.	<i>Sedum.</i>	323
Osier.	<i>Salix.</i>	608
—. Red-	<i>Cornus.</i>	109
Palmetto-tree.	<i>Chamærops.</i>	299
Palma Christi.	<i>Ricinus.</i>	603
Panic-grass.	<i>Panicum.</i>	60
Pansy.	<i>Viola tricolor.</i>	171
Papaw-tree.	<i>Porcelia.</i>	383
Parsley. Cow-	<i>Chærophyllum.</i>	195
—. Milk-	<i>Selinum.</i>	192
—. piert.	<i>Alchemilla arvensis.</i>	112
Parsnep.	<i>Pastinaca.</i>	196
—. Cow-	<i>Heracleum.</i>	192
—. Water-	<i>Sium.</i>	194
Partridge-berry.	<i>Gaultheria.</i>	233
Passion-flower.	<i>Passiflora.</i>	444
Paul's Betony.	<i>Veronica serpyllifolia.</i>	10
Pea.	<i>Pisum.</i>	470
Pearl-wort.	<i>Sagina.</i>	119
Pear.	<i>Pyrus.</i>	339
Pecan-nut.	<i>Juglans.</i>	636
Pellitory.	<i>Parietaria.</i>	114
Penny-cress.	<i>Thlaspi-arvense.</i>	435
— royal.	<i>Hedemra.</i>	414
— wort.	<i>Hydrocotyle.</i>	190
Pepper-wort.	<i>Lepidium.</i>	435
— root.	<i>Dentaria.</i>	438
— vine.	<i>Cissus bipinnata.</i>	170
Persicaria.	<i>Polygonum.</i>	269
Persimon.	<i>Diospyros.</i>	266

Pig-nut.	<i>Juglans porcina.</i>	638
Pimpernel.	<i>Anagallis.</i>	135
_____. Water-	<i>Samolus.</i>	158
Pine-tree.	<i>Pinus.</i>	639
Pink.	<i>Dianthus.</i>	314
Pink-root.	<i>Spigelia.</i>	139
_____. Wild-	<i>Silene.</i>	315
Pipe-wort.	<i>Eriocaulon.</i>	91
Piperidge-bush.	<i>Berberis.</i>	219
Plane-tree.	<i>Platanus.</i>	635
Plantain.	<i>Plantago.</i>	98
_____. Rattle-snake-	<i>Erigeron bellidifolium.</i>	532
_____. Water-	<i>Alisma.</i>	352
Plum-tree.	<i>Prunus.</i>	329
Poison Elder.	<i>Aralia hispida.</i>	209
_____. Oak.	<i>Rhus Toxicodendron.</i>	205
Poke-root.	<i>Phytolacca.</i>	324
Pond-weed.	<i>Potamogeton.</i>	120
_____. Horned-	<i>Zannichellia.</i>	4
_____. Tassel-	<i>Ruppia.</i>	121
Poplar-tree.	<i>Populus.</i>	618
_____. White-	<i>Liriodendron.</i>	382
Poppy.	<i>Papaver.</i>	365
Prickly-pear.	<i>Cactus.</i>	327
Prim.	<i>Ligustrum.</i>	7
Prince's Feather.	<i>Amaranthus.</i>	207
Privet.	<i>Ligustrum.</i>	7
Puccoon.	{ <i>Sanguisorba.</i>	116
Purslane.	{ <i>Bartschia.</i>	132
_____. Water-	<i>Portulaca.</i>	365
Quaking Grass.	<i>Peplis.</i>	238
Quamash.	<i>Briza.</i>	82
	<i>Phalangium.</i>	226
Rag-weed.	<i>Erigeron.</i>	532
_____. wort.	<i>Senecio.</i>	528
Raspberry.	<i>Rubus.</i>	346
Rattle-pea.	<i>Crotalaria.</i>	469
Rattle-snake's-master.	' <i>Liatris squarrosa.</i>	509
_____. plantain.	<i>Erigeron bellidifolium.</i>	532
_____. root.	<i>Polygala.</i>	464
_____. weed.	{ <i>Sonchus floridanus.</i>	501
Red-root.	{ <i>Prenanthes.</i>	498
	{ <i>Ceanothus.</i>	167
	{ <i>Lewisia.</i>	368

Reed-grass.	<i>Arundo.</i>	86
— mace.	<i>Typha.</i>	34
Rib-fern.	<i>Blechnum.</i>	669
— wort.	<i>Plantago lanceolata.</i>	98
Rice. Canada-	<i>Zizania.</i>	60
—. Mountain-	<i>Oryzopsis.</i>	69
Rock Rose.	<i>Helianthemum.</i>	363
Rocket.	<i>Hesperis.</i>	436
—. Sea-	<i>Cakile.</i>	434
Rose.	<i>Rosa.</i>	344
Rose Bay.	<i>Rhododendron.</i>	297
Rosemary. Wild-	<i>Andromeda polifolia.</i>	291
Rush.	<i>Juncus.</i>	235
Rye.	<i>Secale.</i>	90
—. Wild-	<i>Elymus.</i>	89
Saca-commis.	<i>Arbutus Uva ursi.</i>	283
Sage.	<i>Salvia.</i>	19
St. Andrew's Cross.	<i>Acyrum.</i>	373
St. Barnaby's Thistle.	<i>Centaurea solstitialis.</i>	576
St. John's-wort.	<i>Hypericum.</i>	374
St. Peter's-wort.	<i>Symporia.</i>	162
Salt-wort.	{ <i>Salicornia.</i>	2
—. Black-	<i>Salsola.</i>	197
Samphire.	<i>Glaux.</i>	176
Sand-wort.	<i>Salicornia.</i>	3
Sarsaparilla.	<i>Arenaria.</i>	317
Sassafras-tree.	{ <i>Aralia nudicaulis.</i>	209
—. Swamp-	<i>Smilax.</i>	249
Savin.	<i>Menispermum.</i>	370
Saxifrage.	<i>Laurus Sassafras.</i>	277
—. Golden-	<i>Magnolia glauca.</i>	381
—. Meadow-	<i>Juniperus Sabina.</i>	646
Scorpion-grass.	<i>Saxifraga.</i>	310
Scull-cap.	<i>Chrysosplenium.</i>	269
Scunk-weed.	<i>Seseli.</i>	197
— cabbage.	<i>Myosotis.</i>	139
Sea-mat-grass.	<i>Scutellaria.</i>	412
Self-heal.	{ Pothos.	398
Sensitive-fern.	<i>Arundo arenaria.</i>	87
— pea.	<i>Prunella.</i>	411
— briar.	<i>Onoclea.</i>	665
Sedge.	<i>Cassia nicticans.</i>	305
	<i>Schrunkia.</i>	365
	{ <i>Carex.</i>	34
	<i>Schaeenus.</i>	47

Seneca Grass.	<i>Holcus fragrans.</i>	78
Sengreen.	<i>Saxifraga nivalis.</i>	310
Service-tree.	{ <i>Sorbus.</i>	341
Shave-grass.	<i>Pyrus.</i>	339
Shell- or Shag-bark.	<i>Equisetum hyemale.</i>	651
Sheep-berry.	<i>Juglans alba.</i>	637
Shepherd's-purse.	<i>Viburnum prunifolium.</i>	201
Shield-fern.	<i>Thlaspi.</i>	435
Side-saddle-flower.	<i>Aspidium.</i>	660
Silver-tree.	<i>Sarracenia.</i>	367
— bell tree.	<i>Elæagnus.</i>	114
Snake-root.	<i>Halesia.</i>	449
— Black-	<i>Aristolochia.</i>	596
— Button-	<i>Cimicifuga Serpentaria.</i>	372
— Plantain-	<i>Liatris.</i>	507
— Fern.	<i>Erigeron bellidifolium.</i>	532
— weed.	<i>Botrychium.</i>	655
Snap-dragon.	<i>Polygonum bistortoides.</i>	271
Sneeze-wort.	<i>Antirrhinum.</i>	421
Snow-berry.	{ <i>Achillea Ptarmica.</i>	562
Snow-drop-tree.	<i>Convallaria.</i>	232
— flock-tree.	<i>Chiococca.</i>	160
— flower.	<i>Halesia.</i>	449
Soap-berry.	{ <i>Chionanthus.</i>	7
— wort.	<i>Sapindus.</i>	274
Solomon's Seal.	<i>Saponaria.</i>	314
Sorrel.	<i>Polygonatum.</i>	234
— tree.	<i>Rumex.</i>	247
Spear-wort.	<i>Andromeda arborea.</i>	295
Speedwell.	<i>Ranunculus Lingua.</i>	391
Spice-wood.	<i>Veronica.</i>	10
Spider-wort.	<i>Laurus Benzoin.</i>	276
Spikenard.	<i>Tradescantia.</i>	218
Spindle tree.	<i>Aralia racemosa.</i>	209
Spleen-wort.	<i>Evonymus.</i>	168
Spoon-wood.	<i>Asplenium.</i>	605
Spring-grass.	<i>Tilia.</i>	362
Spruce-pine.	<i>Anthoxanthum.</i>	65
Spurrey.	<i>Pinus.</i>	639
Staff-tree.	<i>Spergula.</i>	320
Star-wort.	<i>Celastrus.</i>	167
— Water-	{ <i>Aster.</i>	543
	<i>Aletris.</i>	225
	<i>Melanthium dioicum.</i>	242
	<i>Callitrichie.</i>	3

Stitch-wort.	<i>Stellaria.</i>	317
Stock.	<i>Cheiranthus.</i>	436
Stone-crop.	<i>Sedum.</i>	323
Stramonium.	<i>Datura.</i>	141
Strawberry.	<i>Fragaria.</i>	337
——— Blite.	<i>Blitum.</i>	4
——— tree.	<i>Arbutus.</i>	282
Succory.	<i>Cichorium Intybus.</i>	496
——— Gum-	<i>Chondrilla.</i>	497
Sugar-cane. Wild-	<i>Succharum.</i>	73
Sugar-tree.	<i>Acer saccharinum.</i>	266
Sumach.	<i>Rhus.</i>	204
Sun-dew.	<i>Drosera.</i>	210
——— drop.	<i>Oenothera fruticosa.</i>	262
——— flower.	<i>Helianthus.</i>	570
——— Tick-seed-	<i>Coreopsis.</i>	567
Supple Jack.	<i>Zizyphus.</i>	188
Swallow-wort.	<i>Asclepias.</i>	180
Sweet-bay.	{ <i>Laurus.</i>	275
——— briar.	<i>Magnolia glauca.</i>	381
——— fern-bush.	<i>Rosa.</i>	344
——— gale.	<i>Comptonia.</i>	635
——— leaf.	<i>Myrica.</i>	620
——— scented shrub.	<i>Hopea.</i>	451
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SUPPLEMENTUM.

- Lycopus exaltatus*.—L. foliis basi pinnatifido-serratis, laciinis integerrimis subserratisque, calycibus spinescentibus.—*Willd. sp. pl. 1. p. 121.*
Icon. *Fl. græc. t. 12.*
In low shady woods : Virginia to Carolina ; rare. $\frac{1}{2}$. July, Aug. *v. v. ; v. s. in Herb. Sherard.* From three to six feet high. This species I omitted for want of a specimen in my Herbarium, though I found it myself in Virginia ; but seeing a specimen of Catesby's in the Sherardian Herbarium, I was convinced of its being a real American species.
- Monarda rugosa*.—M. glabriuscula ; capitulis mediocribus subsimplicibus, bracteis exterioribus ovatis undulatis pilosis, calycibus corollisque glabris, lacinia media labii inferioris bidentata, foliis ovatis subcordatis acutis rugosis, nervis subtus petiolisque pilosis, caule acutangulo glabriuscule.—*Willd. sp. pl. 1. p. 125.*
In Canada and on the mountains of Virginia. $\frac{1}{2}$. July — Sept. *v. v. in Hort. Lambert.* About four feet high ; flowers small, white.
- Valeriana dioica*.—V. glabra ; foliis radicalibus subspathulato-ovatis integris longissime petiolatis, caulinis paucis pinnatifidis, laciinis lanceolatis integerrimis subdentatisque obtusiusculis.—*Willd. sp. pl. 1. p. 176.*
Icon. *Fl. dan. 687.*
In swamps at Hudson's Bay. *Tilden.* $\frac{1}{2}$. June. *v. s. in Herb. Sherard.* About a span high ; flowers flesh-coloured.
- Fedia chenopodifolia*.—F. dichotoma ; foliis ovatis acutis inferne dentatis, cymis nudis divaricato-dichotomis, filamentis longis.

- Valeriana virginiana*, pedis anserinæ folio. *Pet. H. S. in Herb. Sherard.*
In Virginia. ♂. v. s. in *Herb. Sherard.* About a span high; flowers the size of *V. officinalis*.
- p. 72. *Aristida pallens*.—A. culmo erecto simplici, foliis filiformibus, radicalibus culmo brevioribus, panicula pauciflora, pedicellis alternis brevibus bifloris, aristis elongatis.—*Cav. ic. 5. t. 468. f. 2.*
In Upper Louisiana. *Bradbury.* ♀. v. s. in *Herb. Bradbury.* About a foot high; the awns more than three inches high.
- p. 73. *Stipa membranacea*.—S. foliis convoluto-filiformibus glabris, panicula laxa, pedicellis flexuosis, calycidus membranaceis 3-nervibus longe acuminatis, corollis calyce brevioribus sericeo-villosis, villosa corollam superantibus, arista nuda recta calyce paulo longiore.
On the banks of the Missouri. *Bradbury.* v. s. in *Herb. Bradbury.* About eighteen inches high; flowers oval, covered with long silky hair.
- p. 85. *Bromus altissimus*.—B. panicula nutante, spiculis oblongis sub-6-floris, flosculis pubescensibus, valvula exteriore 3-nervata breviter aristata, foliis vaginisque glabris, culino gibro altissimo.
On the banks of the Missouri. ♀. July, Aug. v. v. in *Hort. Lambert.* From five to eight feet high.
- p. 88. *Cynosurus secundus*.—C. glaber; foliis linearibus, spica elongata unilateralis, spiculis solitariis, defloratis reflexis, calycibus lineari-lanceolatis acutissimis.
In Upper Louisiana. *Bradbury.* v. s. in *Herb. Bradbury.* Resembles *C. retroflexus* very much.
- p. 97. *Allionia linearis*.—A. caule erecto tereti, foliis linearibus subcarnosis, floribus racemosis, pedicelliis aggregatis, staminibus longissime exertis.
Calymenia angustifolia. *Fraser Catal. 1813.*
In Upper Louisiana. *Bradbury.* v. s. in *Herb. Bradbury.*
- Al'ionia hirsuta*.—A. caule erecto angulato, foliis lanceolatis nervosis utrinque hirsutis, calycibus hirsutissimis sub-3-floris.
In Upper Louisiana. *Bradbury.* v. s. in *Herb. Bradbury.*

- Plantago elongata*.—P. foliis linearibus integerrimis glabris, scapo spicis elongatis subimbricatis foliis longioribus, bracteis ovatis acutis margine membranaceis. p. 99.
In Upper Louisiana. *Bradbury*. v. s. in *Herb. Bradbury*. Resembles *P. pauciflora*.
- Pulmonaria lanceolata*.—P. glabra, erecta; foliis radicalibus longissime pedicellatis lanceolatis, caulinis linearioribus, floribus subpaniculatis, calycibus abbreviatis. p. 131.
In Upper Louisiana. *Bradbury*. ¼. v. s. in *Herb. Bradbury*. Flowers small, resembling those of *P. paniculata*.
- Pulmonaria sibirica*.—P. calycibus abbreviatis, foliis radicibus cordatis. *Willd. sp. pl. 1. p. 770.*
Anchusa. *Gmel. sib. 4. p. 75. no. 15. t. 39.*
In Canada. *Masson*. ¼. July. v. s. in *Herb. Lambert*. Flowers purple, in terminal corymbs; it resembles *P. virginica* very much.
- Cynoglossum glomeratum*.—C. hispidum; foliis spatulatis obtusis, floribus glomeratis. p. 133.
C. glomeratum. *Fraser. catal. 1813.*
In Upper Louisiana. *Bradbury*. ¼. v. s. in *Herb. Bradbury*.
- Lysimachia lanceolata*.—L. glaberrima; foliis quaternis subpetiolatis lanceolatis promisse acuminatis, pedunculis quaternis multifloris, floribus summis racemosis, corollæ laciniis ovatis acutis, caule erecto simplici. p. 135.
L. caroliniana quadrifolia, foliis acutis. *Herb. Sherard*.
In Carolina *Catesby*. ¼. v. s. in *Herb. Sherard*. Flowers the size of *L. vulgaris*.
- Calystegia Catesbeiana*.—C. volubilis, tomentosa; foliis oblongis sagittatis acuminatis, pedunculis unifloris folio brevioribus, bracteis ovalibus obtusis calyce longioribus. p. 143.
In Carolina. *Catesby*. v. s. in *Herb. Sherard*. Flowers large, purple.
- Calystegia paradoxa*.—C. hirsuta, tomentosa; foliis oblongis cordato-sagittatis acutis, pedunculis unifloris elongatis folio longioribus, bracteis a flore remotis linearibus, calycibus nudis glabris acuminatis.
- Convolvulus virginianus*, læviter hirsutis et oblongis foliis, flore maximo albicante. *Pluk. mant. 54. secundum Herb. Sherard*.

- In Virginia or Carolina. *v. s. in Herb. Sherard.* Flowers large, white.
- p. 143.* *Convolvulus Sherardi.*—*C. humifusus, pubescens; foliis ellipticis utrinque retusis mucronatis, floribus solitariis subsessilibus.*
C. forte monococco Banist. similis, sed vasculis sessilibus.
Herb. Sherard.
 In Carolina. *Catesby.* ♂. *v. s. in Herb. Sherard.* Resembles *C. trichosanthes* very much; I have only seen a specimen with fruit.
- p. 147.* *Cantua parviflora.*—*C. pubescens, diffusa; foliis pinnatifidis, lacinias linearibus elongatis, pedunculis solitariis unifloris terminalibus et oppositifoliis, corollis calyce vix longioribus.*
Ipomopsis inconspicua. Smith exot. bot. 1. t. 14.
 In North America. Hoy. ♂. June. *v. v. in Hortis.* Flowers small, pale blue. I insert this plant on the authority of Exotic Botany; but at the same time I doubt very much of its being a native of North America, and more strongly suspect it to come from Mexico.
- p. 148.* *Phlox acuminata.*—*P. erecta, pubescens; caule angulato, foliis ovato-lanceolatis acuminatis inferne angustatis subpetiolatis subtus pubescentibus, floralibus subcordatis, corymbis paniculatis, corollæ lacinias rotundatis, tubo pubescente, calycibus aristatis.*
Phlox decussata. Lyon catal. 1812.
 On the mountains of Georgia and South Carolina. Lyon.
 ♀. Aug. Sept. *v. v. in Hort. Lambert.* From four to five feet high; flowers very handsomely variegated, with dark and light shades of purple.
- p. 149.* *Phlox nitida.*—*P. erecta, glaberrima; caule tereti maculato lavigato, foliis ovato-oblongis subcarnosis supra nitidis atrovirentibus, subtus pallidis, corymbis fastigiatis, ramis inferioribus elongatis nudiusculis, corollæ lacinias lato-ovovatis subretusis, dentibus calycinis lanceolatis mucronatis.*
P. suffruticosa. Hortul.
 In South Carolina. Fraser. ♀. Aug.—Oct. *v. v. in Hortis.* Near two feet high; flowers of a brilliant purple, which is deeper than in any other species. This species approaches near to *P. Carolina*; but besides its other characters it distinguishes itself very easily by flowering later and longer than that species.

Solanum heterandrum.—*S. annum*; caule foliisque aculeatis, foliis ovatis pinnatifidis utrinque hirsutis, laciniis obtusiusculis, antheris declinatis distantibus, ima corniformi productiore, bacca calyce echinato inclusa.

p. 156.

Icon. *Tab. 7.*

The present description has been taken from a living plant raised by A. B. Lambert, Esq. from seeds received of Mr. Nuttall. The native specimen the former description was made from was very imperfect.

Physalis somnifera.—*P. perennis, tomentosa*; foliis ovatis integerrimis, floribus confertis brevissime pedicellatis, corollis campanulatis. *Willd. sp. pl. 1. p. 1019.*

p. 157.

Icon. *Cav. ic. 2. t. 103.*

In South Carolina. *Catesby.* *4. July. v. s. in Herb. Sherard* Flowers small, brownish-yellow.

Campanula nitida.—*C. glaberrima*; foliis radicalibus spatulato-oblongis coriaceis cartilagineo-crenatis, caulinis lanceolato-oblongis subintegerrimis, floribus racemosis, corollis campanulato-rotatis.—*Willd. sp. pl. 1. p. 899.*

p. 159.

C. americana minor, flore caeruleo patulo. *Rob. ic.*

In North America. *4. July. v. s. in Herb. Lambert. nec non Sherard.* About a span high; flowers middle size, fine blue. What part of America it is from is not known, but I suppose it to be Hudson's Bay. Misled by Michaux, this plant had been inserted as a synonym to *C. acuminata*, with which it has not the least connection.

Ribes laevigatum.—*R. inerme*; foliis cordatis 5-lobis inciso-dentatis glabris, petiolis gracilibus, racemis laxis erectis longitudine foliorum, bracteis subulatis, pedicellis elongatis, calycibus campanulato-tubulatis, baccis globosis hispidis.

p. 163.

On the north-west coast. *Menzies. 1. v. s. in Herb. Banks.* The flowers appear to be yellow, about the size of *R. floridum*.

Ribes speciosum.—*R. sub gemmis 3-plicato-aculeatum*; foliis cuneato-subrotundis inciso-crenatis glabris nervosis subtus pallidioribus, petiolis brevibus, pedunculis sub-3-floris foliis longioribus, pedicellis germinibusque glanduloso-pilosis, calycibus tubulatis pedicellis longioribus, staminibus longissime exertis.

p. 165.

On the north-west coast. *Menzies. 1. v. s. in Herb. Banks.* The younger branches are hispid; the flowers

- Ribes Menziesii*.—*R. sub gemmis 3-plicato-aculeatum ; ramis hispidissimis, foliis basi truncatis sub-5-lobis inciso-dentatis, lobis lateribus brevioribus, subtus tomentosis, pedunculis subbifloris foliis subaequantibus, calycibus tubulosis : limbo patente, staminibus longitudine calyculis, stylo exerto, baccis globosis aculeatis.*
On the north-west coast, near Fort Trinidad. *Menzies.*
b. *v. s. in Herb. Banks.* The flowers of the size and colour of *R. sanguineum*.
- Viola asarifolia*.—*V. acaulis, pubescens ; foliis dilatato-reniformibus acutis circum circa crenato-dentatis basi flabellatim in petiolum attenuatis, pedunculis foliis multo brevioribus.*
Viola caroliniana maxima, foliis cucumerinis, floribus ad radicem pediculis brevibus natis. *Herb. Sherard,*
In low rich woods : Virginia to Carolina. *Catesby.* 4.
May. *v. s. in Herb. Sherard.* I have seen this species several times in Virginia, but generally without flowers; which has been the reason that no specimen was in my collection.
- Hydrocotyle ambigua*.—*H. folio radicali composito, caule subaphyllo 2-3-umbellifero, umbellulis sub-3-floris, petalis lanceolatis.*
In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*
A very small plant; flowers in proportion large, white, with purple anthers; resembling *H. composita*.
- Selinum acaule*.—*S. glabrum, acaule ; foliis bipinnatis, foliolis linearibus superioribus confluentibus, scapis radicalibus foliis brevioribus, umbellulis radii masculis.*
In Upper Louisiana. *Bradbury.* 4. *v. s. in Herb. Bradbury.* Not above two or three inches high; the seeds resembling those of *Pastinaca sativa*.
- Seseli divaricatum*.—*S. caule ramosissimo divaricato, foliis bipinnatifidis, laciniis lanceolatis incisis, involucris nullis, involucellis linearibus.*
In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*
Resembles *S. tortuosum* very much.
- Allium cernuum*.—*A. scapo nudo tetragono umbellifero, foliis linearibus planiusculis, umbella cernua, staminibus simplicibus, germine sex-dentato.* *Roth in Annals of Bot. 2. p. 27.*

- Icon. *Cat. bot. fasc. 2. t. 2.* Bot. mag. 1324.
On the mountains of Virginia and Carolina. ♀. July,
Aug. v. v. Flowers large, rose-coloured, sweet-scented; the leaves have scarcely any scent.
- Smilacina stellata*, β. uniflora.—S. foliis subfalcato-lanceolatis glabriusculis, caule unifloro.
- Polygonatum monanthemum*, flore parvo erecto. Sherard. Herb.
- In Hudson's Bay. Tilden. ♀. v. s. in Herb. Sherard. As I have seen but one individual specimen, I consider it only as a variety, though it is probable it may be a distinct species.
- Helonias graminea*.—H. scapo folioso paniculato, racemis divaricatis, bracteolis ovatis pedicellis longioribus, petalis oblongis acuminate, staminibus corolla triplo brevioribus, foliis linearibus canaliculatis subtus glaucis.—Bot. mag. 1599.
- On the mountains of Georgia. Lyon. ♀. Aug. v. s. in Herb Lyon. This species has a strong affinity with *Nolina Georgiana*.
- Rumex venosus*.—R. valvulis maximis integerrimis reticulato-venosis, foliis lanceolatis integerrimis parallelo-venosis. In Upper Louisiana. Bradbury. ♀. v. s. in Herb. Bradbury. The seeds resemble those of *R. vesicarius*.
- Smilax circidifolia*.—S. aculeata; foliis inermibus orbiculato-cordatis acuminate 5-nervibus utrinque glabris reticulato-venosis breviter petiolatis.
- S. floridana; viticulis spinosis judaicæ arboris folio maximo cordato. Pluk. amalit. 194.
- In South Carolina. Catesby. h. v. s. s. fl. in Herb. Sherard. Though the description was taken from a specimen without flowers, I am convinced of its being a distinct species from any one described.
- Gaura coccinea*.—G. sericeo-pubescent; foliis linear-lanceolatis subdenticulatis, spica conferta, petalis longitudo calycis, stigmate subintegro.
- G. coccinea. Fraser. catal. 1813.
- In Upper Louisiana Bradbury. v. s. in Herb. Bradbury. About a span high; flowers smaller than *G. biennis*, scarlet. In the Catalogue quoted this plant is marked as a perennial, but by the appearance of the specimen I should take it to be only annual.
- Oenothera albicaulis*.—O. tenuissime pubescens; caule nervisque foliorum albidis, foliis pinnatifidis, lacinias divar-
- p. 233.
- p. 243.
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ricatis, floribus subspicatis, germinibus sessilibus cylindraceis, staminibus corolla brevioribus, petalis obcordatis.

O. albicaulis. Fraser. catal. 1813.

*In Upper Louisiana. Bradbury. ♂. v. v. in Herb. Bradbury. Not above four inches high; flowers large, white. This species is intermediate between *O. tetrapera* and *O. sinuata*.*

Oenothera Fraseri.—O. glabriuscula; caule inferne simplici, superne ramuloso, foliis ovatis petiolatis glandulosodenticulatis, racemis foliosis, capsulis pediceatis obovatis 4-gonis.

*In South Carolina. Fraser. ♀. June, July, v. v. in Hortis. This species approaches so near to *O. fruticosa* that it is difficult to define the distinction, though their other habits are so very different. The present species flowers a short time, the stems decay, and form immediately a tuft of large radical leaves. *O. fruticosa* flowers till late in autumn, and never shows its radical leaves in that manner. The differentia specifica of *O. fruticosa* will be *O. fruticosa*, tenue pubescens; caule a basi ramosa, divaricata, foliis sessilibus lanceolatis subdentatis acutis, capsulis pedicellatis oblongo-clavatis angulatis.*

Oenothera macrocarpa.—O. glabriuscula; caule ramoso, foliis lanceolatis, petiolatis, distante glandulosodentatulis margine nervisque sericeo-albidis, petalis cum acumine obcordatis, capsulis ellipticis 4-alatis brevissime pedicellatis.

O. missouriensis. Bot. mag. 1592.

On the banks of the Mississippi, near St. Louis. ♂. July—Oct. v. v. in Hort. Lambert. This species exceeds in size and beauty of its flowers any other one known; they are of a bright yellow, very large, and open about five o'clock in the evening. The calyx is covered with a very fine and white silky down, and is spotted with purple. The figure in the Botanical Magazine is apparently taken from a very weak and starved plant: the flowers of those in possession of A. B. Lambert, Esq., were nearly six inches in diameter, and the tube nearly seven inches long. There is an inequality on the edges of the petals, but by no means can it be called serrulate, which term has been introduced in the differentia specifica, and strongly but erroneously expressed in the figure. The specific name given there is inapplicable, as it never was found any where else,

but near St. Louis, where Mr. Nuttall gathered the ripe fruits of it, specimens of which I have seen.

Oenothera cæspitosa — O. acacalis ; foliis lanceolatis inciso-dentatis, capsulis oblongis sessilibus, cylindris tubo longissimo, petalis bilobis distantibus. *Sims in Bot. mag.* 1593.

p. 263.

O. scapigera. *Fl. amer. sept.* 1 p. 263.

On the banks of the Missouri. *Lewis.* 4. June. Jely. v. v. in *Hort. Fraser*; v. s. specimen *imperfectum* in *Hort. Lewis.* This singular species resembles *O. acacalis* of Cavamiles. The flowers open in the evening, are white, changing to red, and of an agreeable scent. The erroneous description given in the place above quoted was owing to a very imperfect specimen in the Lewisian collection.

Eriogonum pauciflorum. — E. caule simplici basi folioso, umbellis paucifloris, floribus subsessilibus, foliis linearilanceolatis utrinque cano-tomentosis.

p. 277.

In Upper Louisiana. *Bradbury.* 4. v. s. in *Herb. Bradbury.* This is the smallest species, generally from two to three inches high; the flowers appear to be white.

Cactus viviparus. — C. subrotundus multiplex, tuberculis cylindraceis barbatis supra sulca exaratis proliferis.

p. 327.

C. viviparus. *Fraser. Catal.* 1813.

In Upper Louisiana. h. v. v. s. fl. in *Hort. Lambert.* Resembles *C. mammillaris*; the flowers are large and red; the fruit the size of a grape, green and eatable. In the same collection are also the two other species mentioned in Fraser's Catalogue; but only seeing the plants without flowers, I could not define their characters.

Crataegus turbinata. — C. inermis, glabra; foliis cuneato-ovobatis incisis serratis, corymbis paucifloris, pedicellis brevibus, fructibus turbinatis.

p. 836.

In Carolina and Virginia. h. June. v. v.; v. s. in *Herb. Sherard.* This species approaches near to *C. spathulata*, but its fruit distinguishes it from all the rest of the American species.

Rosa lutescens. — R. germinibus globosis pedunculisque glabris, ramulis hispido-spinosis, foliolis (7) glabris ovaibus acuminate-serratis, petiolis inermibus, floribus so-

p. 345.

- litariis, lacinias calycis lanceolatis cuspidatis, petalis ovalibus obtusissimis.*
- In Carolina. $\frac{1}{2}$. May, June. *v. v. in Hort. Lee.* Flowers white, with a faint tint of yellow.
- p. 352.* *Geum triflorum*.—*G. pilosum*; caule simplici subtrifloro, foliis radicalibus interrupte pinnatis, foliolis cuneatis in ciso-dentatis, petalis oblongis longitudine calycis, aristis longissimis villosis.
- In Upper Louisiana. *Bradbury*. $\frac{1}{4}$. *v. s. in Herb. Bradbury.* The aristas of the seeds are resembling those of *Clematis*.
- p. 356.* *Potentilla arguta*.—*P. erecta*, simplex, pubescens; foliis pinnatis, foliolis ovatis argute dentatis, exterioribus majoribus, stipulis rhomboideis incisis, floribus terminibus conferto-corymbosis.
- In Upper Louisiana. *Bradbury*. $\frac{1}{4}$. *v. s. in Herb. Bradbury.* Flowers yellow; leaves large.
- p. 384.* *Clematis Catesbyana*.—*C. scaudens*, pubescens; foliis bibernatis, foliolis subcordatis trilobis, paniculis divaricato-dichotomis, petalis staminibus longioribus, floribus subdioicis.
- In South Carolina. *Catesby*. $\frac{1}{2}$. *v. s. in Herb. Sheppard.* Resembles *C. virginica*. The filaments of the female flowers are membranaceous, linear, and without anthers.
- p. 385.* *Clematis ovata*.—*C. erecta*, simplex; foliis ovatis sensim acutis brevi-petiolatis glabris utrinque reticulato-venosis, inferioribus subcordatis pedunculo terminali solitario unifloro, aristis plumosis longissimis.
- In South Carolina. *Catesby*. $\frac{1}{4}$. *v. s. in Herb. Sheppard.* Resembles *C. integrifolia*. In the Sherardian Herbarium the figure of *Pluk. mant. t. 379. f. 4.* is quoted; but I consider that figure to be an imperfect specimen of a *Clematis* with compound leaves.
- p. 395.* *Ranunculus multifidus*.—*R. foliis tripartito-multifidis*: lacinias incisis approximatis, caule natante, foliolis calycis subrotundis petalis paulo brevioribus.
- In Upper Louisiana. *Bradbury*. $\frac{1}{4}$. *v. s. in Herb. Bradbury.* Flowers yellow; resembles *R. fluvialis*.
- p. 424.* **SEYMERIA.** *Cal. campanulatus, 5-partitus*: lacinias linearibus, equalibus. *Cor. campanulata*. *Tubus calyce*

vix longior. *Limbus* 5-fidus : laciniis subæqualibus, oblongis, patentibus. *Filamenta* 4. brevia, fauce inserta. *Antheræ* erectæ, oblongæ, nudæ, longitudine corollæ. *Stylus* declinatus, longitudine staminum. *Stigma* simplex. *Caps.* subrotunda, 2-locularis, 2-valvis, apice dehiscentia.

Seymeria tenuifolia.—*S. glabriuscula*, *virgatim paniculata*; foliis setaceo-pinnatifidis, laciniis divisis.

Gerardia Cassiodes, Vol. 2. p. 424.

In dry sandy woods of Carolina and Georgia. ♂. July, Aug. v. s. in *Herb. Sherard.* Flowers small, dark yellow.

Seymeria pectinata.—*S. viscido-pubescent*, brachiatim ramosissima; foliis pectinato-pinnatifidis, laciniis indivisis linearibus acutis.

In South Carolina. *Catesby*. ♂ July. v. s. in *Herb. Sherard.* Flowers the size and colour of the preceding. While writing the genus *Gerardia*, I strongly suspected *G. cassiodes* to be a distinct genus, which already had been considered so by Walter and Gmelin. Having no materials then at hand, I followed the authority of Michaux. But finding in the Sherardian Herbarium not only that species, but also a new one described here, I was convinced of its generic distinction, the character of which is well expressed in *Walt. fl. car.* 171. I have named this genus in memory of the late Henry Seymer, Esq. of Hanford, Dorsetshire, a gentleman much celebrated for his extensive collections in natural history, and for whom Dr. Solander had so great a regard as to dedicate the plant which afterwards was called *Solandra grandiflora* to his memory, as I have seen it named *Seymera* in the Herbarium of A. B. Lambert, Esq., in Dr. Solander's own handwriting.

Chelone Lyoni —*C. glabra*, *ramosa*; foliis petiolatis cordato-ovatis serratis, spicis terminalibus densifloris.

p. 427.

In Upper Carolina and Georgia. *Lyon*. ♀. July—Sept. v. s. in *Herb. Lambert.* This is a very fine and large species; flowers purple.

Pentstemon erianthus.—*P. caule* *pumilo* *pubescens*, foliis oblongis acutis obsolete denticulatis subhirsutis, floribus racemosis, pedicellis plerumque solitariis, filamento sterili exerto apice revoluto longitudinaliter barbato, calycis foliolis linearibus hirsutissimis.

p. 428.

P. erianthera. *Fusser. catal.* 1813.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*

Bradbury. Not above a span high; flowers large in proportion, of a deep purple; the hairs of the infertile anthera are long and golden yellow. It approaches near to *P. frutescens*.

Pentstemon angustifolia.—*P. caule* vix pubescente, foliis glabris longe linearibus integerrimis, floribus racemoso-paniculatis, filamento sterili reliquis breviore superie sub-hirsuto, calycis foliolis lanceolatis glabris.

P. angustifolium. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*

Bradbury. Flowers resembling those of *P. pubescens*.

Pentstemon glabra.—*P. caule* toliisque glabris, foliis sub-amplexicaulibus ovato-oblongis integerrimis, floribus racemoso-paniculatis, filamento sterili nudo clavato apice retuso, calycis foliolis subrotundis acuminatis, lacinia corollæ subæqualibus rotundatis, antheris hirsutis.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*

Bradbury. A fine and large species; flowers dark purple.

Pentstemon Bradburii.—*P. glaberrima*; foliis subamplexicaulibus ovato-oblongis integerrimis, superioribus subrotundis, floribus verticillatis, filamento sterili apice brevi barbato, calycis foliolis oblongis acutis.

P. grandiflorum. *Fraser. catal.* 1813.

This is the finest and largest of all the species; the flowers very large, and variable in their colour.

p. 431.

Castilleja sessiliflora.—*C. foliis* apice palmato-incisis, floribus sessilibus.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*

Caulis ramosus, teres, dense pubescens. *Folia* alterna, sessilia, utrinque pubescentia, apice in lacinias 3—5. divisa: lacinia linearibus, elongatis, acutis. *Flores* in apice ramorum axillares, solitarii, sessiles, coccinei? *Calyx* tubulosus, basi ventricosus, 4-fidus? *Corolla* ringens. *Labium* superius acutum? *inferius* trifidum: lacinia linearibus, acutis, labio superiore vix brevioribus. *Stamina* fauci corollæ inserta, filiformia, longitude labii superioris, glabra. *Anthere* linearea. *Stigma* exsertum.

This highly interesting plant has some distant affinity with *C. fissifolia*. *Smith w. ined. t. 40.*

Cleome pinnata.—C. subpulescens, hexandra; foliis pinnatis, foliolis lanceolatis inferne attenuatis rarer dentatis, superioribus confluentibus, floribus racemosis, pedicellis aggregatis,

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* About two feet high; flowers of a bright yellow; the pods are on very long pedicels.

Polygala corymbosa.—P. caule inferne simplicissimo, summitate ramosa corymbose multiflora, foliis linearibus.—*Mich. fl. amer. 2 p. 54.*

P. cymosa. *Walt. fl. car. 179.*

In swamps: Carolina to Florida. 4. July, Aug. v. s. Flowers yellow, when dried green.

Vicia stipulacea.—V. racemis subquadrigloris folio longioribus, stipulis foliiformibus basi semisagittatis integris, foliolis 8—10. linear-lanceolatis utrinque acutis nervosis glabris.

In Upper Louisiana. *Bradbury. 4. v. s. in Herb. Bradbury.*

Caulis subtetragonus, striatus, simplex, vix pedalis. *Foliola* 8—10. opposita linear-lanceolata acuta glabra utrinque elevato-nervosa. *Stipulae* longitudine foliorum, basi semisagittatae, auriculis acutis. *Cirrus* obsoletus, setaceus. *Pedunculi* axillares folio duplo longiores. *Racemi* plerumque 4-flori. *Flores* magni, purpurei. *Legumen* glabrum.

Ervum multiflorum.—E. racemis pedunculatis multifloris folio longioribus, leguminibus lanceolatis glabris sub-4-spermis, stipulis oratis acuminate, foliolis linearibus obtusis, cirrhis nullis, caule paniculato.

Astragalus tenellus. *Vol. 2. p. 473.*

In Upper Louisiana. *M. Lewis and Bradbury. 4. Aug. v. s. in Herb. Lewis. nec non Bradbury.*

Caulis erectus, paniculato-ramosus, teres. *Ramuli* juniores sericei. *Foliola* plurima, alterna linearia, obtusa, glabriuscula. *Cirri* nulli. *Stipulae* ovatae longe acuminate. *Racemi* axillares, elongati, pedunculati. *Bracteae* minutae, ovatae, acuminate, vix longitudine pedicellorum. *Pedicelli* flore breviores. *Flores* parvi albidii, vexillo oblongo. *Calyx* sericeus, corolla triplo brevior, dentibus subulatis, *Stylus* filiformis, glaber,

p. 441.

p. 446.

p. 472.

inflexus. Stigma acutum, glabrum. Legumina pendula, oblongo-lanceolata, glabra, 3-4-sperma.
Of this plant I had an imperfect specimen in the Lewisan Herbarium, together with some pods of an *Astragalus*, which led me into the error of placing it under that genus; but having since seen fine specimens in the collection of Mr. Bradbury, I was enabled to correct this error.

Astragalus racemosus.—*A. caulescens, erectus, subpubescens; foliolis (21) lanceolatis superne sensim minoribus, stipulis ovatis acuminateis, spicis racemosis pedunculatis folio longioribus, densifloris, bracteis linearibus pedicellis brevioribus, calycibus glabriusculis, dentibus subulatis.*

In Upper Louisiana. *Bradbury.* ♀: v. s. in *Herb. Bradbury.* Flower white. Resembles *A. carolinianus*.

Astragalus carnosus.—*A. caulescens, diffusus, albido-sericeus, foliolis (21)-ellipticis supra glabris, subtus sericeis, stipulis subulatis, spicis subsessilibus, leguminibus globosis inflatis carnosis.*

In Upper Louisiana. *Bradbury.* v. s. in *Herb. Bradbury.* The fruit resembles that of *A. pycnoides*. Flowers appear to have been white. This is probably the *A. crassicaulis* *Fraser. catal.* 1813.

p. 473. *Astragalus triphyllus*.—*A. acaulis, argenteus, foliis ternatis, foliolis sessilibus lanceolatis, scapo nullo, leguminibus sessilibus oblongis.*

In Upper Louisiana. *Bradbury.* ♀. v. s. in *Herb. Bradbury.* A most singular species, the leaves of a shining silver colour; the flowers were too much decayed when I examined the specimens.

Oxytropis Lambertii.—*O. acaulis, sericeo-pilosa; foliolis (19) lanceolato-ellipticis utrinque acutis, scapis folia æquantibus, spicis capitatis, bracteis linearibus longitudine calycis.*

On the Missouri. *Bradbury.* ♀. Aug. Sept. v. v. in *Hort. Lambert.* Flowers a beautiful purple. It approaches near to *O. argentata* and *setosa*.

p. 474. *Dalea aurea*.—*D. sericeo-villoso; spicis oblongis terminibus solitariis, bracteis oblongis acuminatis calycis longitudine ciliatis, calycibus villosissimis, foliis sub-3-jugis oblongis obovatisque obtusis.*

D. aurea. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*
Bradbury. Flowers bright yellow, in oblong hairy spikes.

Dalea laxiflora.—*D. glabriuscula*; caule superne ramosissimo, ramis laxis elongatis, spicis paniculatis elongatis, floribus remotiusculis, bracteis subrotundis mucronatis carinatis, floribus enneandris, calycibus sericeo-villosis, foliis sub-4-jugis linearibus.

D. enneandra. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*
Bradbury. This is the tallest of the genus. The white flowers are in narrow spikes, and have remarkable silky calyces, which form a fine contrast with the rest of the plant, being entirely destitute of hair.

Psoralea elliptica.—*P. subpubescens*; foliis ternatis: foliolis ellipticis obtusis, pedunculis axillaribus folio longioribus, spicis conferte-paucifloris, dentibus calycis abbreviatis.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*
Bradbury. Flowers small, white with a tinge of purple.

Psoralea longifolia.—*P. undique sericeo-villosa*; foliis ternatis: foliolis linearibus elongatis, spicis axillaribus penduculatis laxifloris folio brevioribus, dentibus calycis bracteisque subulatis.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*
Bradbury. Flowers middle-sized, apparently white. The leaves have none of those glandular dots so general in this genus.

Psoralea cuspidata.—*P. villosa*; foliis digitato-quinatis, foliolis obovatis mucronatis integerrimis, spicis axillaribus densifloris, laciiniis calycis bracteisque ovatis cuspidatis conspicue punctatis.

P. macrorhiza. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury*. *4. v. s. in Herb.*
Bradbury. This species has some resemblance to *P. esculenta*.

Cytisus rhombifolius.—*C. pubescens*; racemis terminalibus erectis, leguminibus falcatis subarticulatis, foliolis oblongo-rhomboides obtusis, stipulis rotundato-ovatis obliquis.

p. 475.

p. 476.

p. 489.

C. rhombifolius. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury*. *v. s. in Herb. Bradbury*. The stipulae are large and foliaceous; the specimen I have seen was in fruit, and Mr. Bradbury has seen only one plant in flower.

p. 505.

Troximum glaucum.—*T. scapo unifloro glabriuscule, foliis linear-lanceolatis planis integerrimis utrinque glaucis, calycinis foliolis imbricatis acutis pubescentibus*.—*Vol. 2. p. 505*.

Troximum cuspidatum.—*T. scapo unifloro superne subtomentoso, foliis linearibus margine undato tomentosis, calycinis foliolis imbricatis cuspidatis glabris*.

In Upper Louisiana. *Bradbury*. *¶. v. s. in Herb. Bradbury*. Flowers large, yellow. Resembles the preceding.

p. 519.

Hymenopappus scabiosaeus.—*H. candicanti-lanuginosus; foliis profunde pinnatifidis, lacinia linear-oblongis subdentatis, floribus simpliciter corymbosis, calyce sub-10-phyllo flosculis maiore, seminibus pubescentibus*.—*Vol. 2. p. 519*.

Hymenopappus tenuifolius.—*H. candicanti-lanuginosus; caule corymbo-ramoso, foliis suboppositis, lacinia angusti linearibus integris, floribus composite corymbosis, pedicellis confertis, calyce sub-6-phyllo flosculis breviore, seminibus villosissimis*.

In Upper Louisiana. *Bradbury*. *♂. v. s. in Herb. Bradbury*. At first sight I considered this to be the same with the preceding species; but comparing the figure and description in the *Journal d'Histoire Naturelle*, vol. 1. p. 16. t. 1. with my specimen, I found them materially distinct. The flowers are white, and not half the size of the former.

p. 521.

Artemisia dracunculoides.—*A. glabra; ramis nutantibus, foliis longo-linearibus subfalcatis, radicalibus trifidis, racemis foliosis, pedicellis brevibus, floribus erectis, calycibus subglobosis paucifloris, foliolis scariosis*.

A. nutans. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury*. *¶. v. s. in Herb. Bradbury*. From three to four feet high; flowers very small.

p. 532.

Erigeron hirsutum.—*E. undique hirsutissimum; caule sim-*

- plici unifloro, foliis linearibus integerrimis enervibus, calycibus hirsutis.*
E. uniflorum. Willd. sp. pl. 3. p. 1960?
 In Upper Louisiana. *Bradbury.* ♀. v. s. in Herb. *Bradbury.* Not above five inches high; flowers large, ray white and long.
- Galardia acaulis.*—*G. pilosa*; scapo unifloro, foliis linearispathulatis, paleis pappi (5—7) ovatis brevi-aristatis.
 In Upper Louisiana. *Bradbury.* ♀. v. s. in Herb. *Bradbury.* Not above a span high; flower small, simply yellow.
- Iva axillaris.*—*I. herbacea, subpilosa*; foliis plerumque oppositis lineari-lanceolatis integerrimis, floribus axillariis solitariis nutantibus, calycibus simpliciusculis, foliolis ovatis.
 In Upper Louisiana. *Bradbury.* ♂. v. s. in Herb. *Bradbury.* About a span high; flowers white.
- Ambrosia hispida.*—*A. undique canescens-hispida*; foliis bipinnatifidis, laciniis incisis, racemis terminalibus sub-paniculatis.
 In South Carolina. *Catesby.* ♂. v. s. in Herb. *Sherard.* About a foot high; flowers larger than *A. trifida*.
- Orchis herbiola.*—*O. cornu filiformi germine breviore, labello oblongo obtuso basi utrinque dentato; palato undentato, bracteis flore longioribus.*
Habenaria herbiola. *Brown in Ait. kew. ed. 2. vol. 5. p. 193.*
 In North America. *Fothergill.* ♀. +. This species, unknown to me, appears to approach near to *Orchis fuscescens*.
Aristolochia tomentosa.—*A. caule volubili frutescente, foliis petiolatis cordatis subtus tomentosis, pedunculis solitariis ebracteatis, corollæ tubo retorto; limbo subaequaliter trifido; ore hiante.* *Sims in bot. mag. 1369.*
 On the mountains of South Carolina. *Lyon.* ♀. June.
 v. v. Resembles *A. Sipho*. Flowers yellow.
- Anus glauca.*—*A. foliis oblongis acatis duplieato-serratis subtus glaucis, axillis venarum nudis, stipulis lanceolatis.* *Mich. arb. 3. p. 322. f. 4.*
 In New England and on the high mountains of Pennsylvania. ♀. March, April. v. v. This shrub, which is known by the name of *Black Alder*, has a strong resemblance to *A. incana*.

ADDENDA ET CORRIGENDA.

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- 1 lin. 4 loco *Monoicum* lege *Monoica*. This error occurs in this and the next table of genera.
15 adde *Monoicum*.
22 adde *Monoica*.
23 adde *Monoica*.
3 7 *Hippuris vulgaris*. In the Sherardian Herbarium are specimens collected at Hudson's Bay which I compared with the European *Hippuris*, and found them entirely distinct. I rather suspect this plant ought to be placed among the *Filices*.
6 5 adde *Dioica*.
7 12 adde *Dioica*.
13 adde *Dioica*.
15 adde *Monoica*.
7 ab infer. adde *Mich. arb.* 3. p. 50. t. 6.
8 17 ab infer. lege *Mich. arb.* 3. p. 122. t. 12.
11 ab infer. lege *Mich. arb.* 3. p. 118. t. 11.
3 et 5 ab infer. delenda sunt.
9 5 delenda est.
6 lege *Mich. arb.* 3. p. 106. t. 8.
14 dele *Mich. arb.* ejus loco *Catesb. car.* 1. t. 80.
19 dele *Catesb. car.* t. 80. et lege *Mich. arb.* 3. p. 128. t. 13.
28 lege *Mich. arb.* 3. p. 112. t. 9.
3 ab infer. lege *F. viridis*. *Mich. arb.* 3. p. 115. t. 10.
10 5 adde *Mich. arb.* 3. p. 217. t. 6.
16 Monarda Kalmiana, adde Icon. t. 1.
17 13 post Flowers adde pale.
21 Ceratiola ericoides, adde Icon. t. 13.
24 25 Rynchospora lege Rynchospora.

- pag. lin.
 26 30 dele genus ANTHISTRRIA.
 30 Iris cuprea, *adde* I. fulva. *Bot. mag.* 1496.
 Iris verna, *conf.* *Bot. mag.* 1393. *observ.*
 Iris prismatica, *adde* *Bot. mag.* 1504.
 42 16 loco foliis *lege* foliisque.
 43 18 loco E *lege* C.
 61 9 et 14 loco *Dilepycum* *lege* *Dilepyrum*.
 62 Milium amphicarpon *adde* Icon. *Tab. 2.*
 72 6 ab infer. loco A *lege* S.
 95 23 dele 2. ante biloculari.
 96 7 ab infer. loco involucro *lege* involucris.
 98 8 ad marginem loco data *lege* cordata.
 ultima, loco caule *lege* scapo.
 102 *Oldenlandia glomerata.* Willdenow's and Lamarck's synonym seem to belong to a very ambiguous species of this genus, or, as I strongly suspect, to *Ludwigia nitida*, as I have seen this plant in the Sherardian Herbarium under the name and synonyms of *Oldenlandia uniflora*.
 115 *Planera aquatica*, *adde* P. ulmifolia. *Mich. arb.* 3. p. 283.
 126 18 loco *Gonolobus* *lege* *Gonolobium*.
 20 loco Appendix *lege* Appendices.
 inter 224 et 225 insere CEROPEGIA. *Folliculi* 2. erecti. *Sem. plumosa*. *Cor. urceolatæ* *limbus* condivens.
 128 inter 244 et 245 insere SISON. *Fructus* ovatus, striatus. *Invol.* sub-4-phylla.
 138 8 ab infer. post palustris *adde* β. inflata.
 146 Ipomoea Jalapa, *adde* Convolvulus Jalapa. *Bot. mag.* 1572.
 158 *Pinkneya pubescens*, *adde* *Mich. arb.* 2. p. 276.
 t....
 159 11 et 12 delendæ sunt.
 Ribes resinosum, *adde* Icon. *Bot. mag.* 1583.
 164 7 ab infer. *adde* *Mich. fl. amer.* 1. p. 109.
 165 7 ab infer. loco lacustris *lege* lacustre.
 166 1 loco subgeminis *lege* sub gemmis.
 167 6 *adde* *Bot. mag.* 1479.
 169 ultima, ante utrinque *adde* foliis.
 175 Claytonia lanceolata, *adde* Icon. *Tab. 3.*
 177 Nyssa villosa, *adde* N. sylvatica. *Mich. arb.* 2. p. 260. t. 21.
 Nyssa biflora, *adde* *Mich. arb.* 2. p. 265. t. 22.

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177	<i>Nyssa candidans</i> , <i>adde Mich. arb.</i> 2. p. 257. t. 20.
178	<i>Nyssa tomentosa</i> , <i>adde Mich. arb.</i> 2. p. 252. t. .
181	1 loco 1187 lege 1181.
186	1 <i>adde Bot. mag.</i> 1551.
187	20 <i>locu unifloribus lege unifloris.</i>
199	ultima, <i>adde Mich. arb.</i> 3. p. 269. t. . . .
200	<i>Ulmus fulva</i> , <i>adde U. rubra. Mich. arb.</i> 3.
	p. 278. t. . . .
	<i>Ulmus alata</i> , <i>adde Mich. arb.</i> 3. p. 275. t. . . .
	<i>Celtis occidentalis</i> , <i>adde Mich. arb.</i> 3. p. 226.
	t. 8.
	<i>Celtis crassifolia</i> , <i>adde Mich. arb.</i> 3. p. 228. t. 9.
206	17 <i>locu ramosissima lege ramosissimo.</i>
219	<i>Berberis aquifolium</i> , <i>adde Icon. Tab.</i> 4.
	<i>Berberis nervosa</i> , <i>adde Icon. Tab.</i> 5.
221	<i>Gleditschia triacanthos</i> , <i>adde Mich. arb.</i> 3. p.
	164. t. . . .
	<i>Gleditschia monosperma</i> , <i>adde Mich. arb.</i> 3.
	p. 169. t. . . .
223	<i>Allium angulosum</i> , <i>adde A. stellatum. Bot. mag.</i>
	1576.
224	<i>Conostylis americana</i> , <i>adde Icon. Tab.</i> 6. <i>Lophiola aurea. Bot. mag.</i> 1596. In this figure
	the flowers are more than twice the size of those in its native state.
226	<i>Phalangium Quamash</i> , <i>adde Scilla esculenta.</i>
	<i>Bot. mag.</i> 1574. Having not seen the living plant when I made my description, I was
	misled by Mr. Lewis in describing one of the petals to be dependent and the rest ascendent,
	which is not the case.
228	<i>Lilium pudicum</i> , <i>adde Icon. Tab.</i> 8.
232	<i>Streptopus roseus</i> , <i>adde Uvularia rosea. Bot.</i>
	<i>mag.</i> 1489.
	<i>Streptopus lanuginosus</i> , <i>adde Uvularia lanuginosa.</i>
	<i>Bot. mag.</i> 1490.
240	<i>Chamærops Palmetto</i> , <i>adde Mich. arb.</i> 2.
	p. 186. t. . . .
	<i>Nolina georgiana</i> , <i>adde Asphodelus minor albus</i>
	<i>ex Provincia mariana. Pluk. mant.</i> 29. t. 342.
	<i>f. 1. (pars paniculæ), secundum Herb. Sher-</i>
	<i>ward.</i> Very fine specimens of this rare plant
	I found in the Sherardian Herbarium collected
	by M. Catesby on the Savannah river. It re-
	sembles <i>Helonias graminea</i> , <i>Bot. mag.</i> 1599.

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- exceedingly, and I should have taken it to be the same if the pedicels were not solitary, and, as Mr. Kerr observes, the germ polyspermous, which in *Noline* is only 3-spermous.
- 242 *Veratrum viride*, *adde* *Helonias viridis*. *Bot. mag.* 1096.
Veratrum angustifolium.—Of this species I have seen a fine specimen in the Sherardian Herbarium, under the name *Phalangium canadense majus ramosum*, *Iridis folio*, by which it appeared to grow likewise in Canada. The panicle was monoic not dioic, as I observed it in Virginia, the seeds lanceolate, membranaceous.
- 242 14 *ab infer. loco legumine lege tegumine*.
 243 23 *loco thier lege their*.
Helonias tenax, *adde* *Icon. Tab. 9*.
 255 *Aesculus flava*, *adde* *Mich. arb.* 3. p. 238. t...
Aesculus glabra, *adde* *Mich. arb.* 3. p. 242.
 259 4 *ab infer. adde nomen specificum, rosmarinifolium*.
 263 *dele Oenothera scapigera*. *Ejus loco vid. Supplementum sub nomine Oenothera cæspitosa*.
 264 *Menziesia globularis*, *adde* *M. ferruginea* β .
Bot. mag. 1571. Though Dr. Sims considers this species only as a variety, I still think the distinctions given by A. Salisbury, Esq. are sufficient to keep it as a species.
 265 *Diospyros virginiana*, *adde* *Mich. arb.* 2. p. 195. t. 12.
 266 *Acer rubrum*, *adde* *Mich. arb.* 2. p. 210. t. 14.
Acer dasycarpum, *adde* *Mich. arb.* 2. p. 205. t. 13.
Acer saccharinum, *adde* *Mich. arb.* 2. p. 218. t. 15.
Acer nigrum, *adde* *Mich. arb.* 2. p. 238. t. 16.
Acer striatum, *adde* *Mich. arb.* 2. p. 242. t. 17.
Acer Negundo, *adde* *Mich. arb.* 2. p. 247. t. 18.
inter AGROSTEMMA et OXALIS, *adde* 394.
LYCHNIS. *Cal. 1-phyllo, oblongus, levius*.
Pet. 5. unguiculata, limbo subbifido. Caps. 1—5-locularia.
 6 *loco 394 lege 395*.
 10 *loco 395 lege 396*.

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| | 12 loco 396 lege 397. |
| | 15 loco 397 lege 398 |
| 283 | <i>Gaultheria scyphifolia</i> , <i>adde Tab. 13.</i> |
| 284 | <i>Gaultheria Shallon</i> , <i>adde Tab. 12.</i> |
| 289 | <i>Vaccinium nitidum</i> , <i>adde Bot. mag. 1550.</i> |
| 293 | <i>Andromeda floribunda</i> , <i>adde Bot. mag. 1566.</i>
In the extensive collection of the Sherardian Herbarium I met with most of the species of <i>Vaccinium</i> and <i>Andromeda</i> described in the present work; but meeting with none that were new, convinced me of the idea that this extensive family is nearly fully described here. |
| 294 | <i>Andromeda mariana</i> , <i>adde var. ovalis. Bot. mag. 1579.</i> |
| 295 | <i>Andromeda arborea</i> , <i>adde Mich. arb. 3. p. 222. t. 7.</i> |
| 297 | <i>Kalmia latifolia</i> , <i>adde Mich. arb. 3. p. 147. t. 5.</i> |
| | <i>Rhododendron maximum</i> , <i>adde Mich. arb. 3. p. 144. t. 4.</i> |
| 298 | <i>Rhododendron catabiense</i> . I have had an opportunity of seeing this species in flower at Messrs. Lee and Kennedy's; the plant was not above a foot high; the flowers rose-coloured, similar to those of <i>R. maximum</i> ; but having scarcely any marks or spots on the upper part of the corolla. |
| 302 | <i>Mylocarium ligustrinum</i> , <i>adde Icon. Tab. 14.</i> The original drawing of this plant was taken by me at Messrs. Bartrams' near Philadelphia. |
| 303 | <i>Monotropa morisoniana</i> . I had the pleasure of seeing, in the Oxford Herbarium, the original specimen from which the figure in Morrison's History has been taken, and which so erroneously has been quoted under <i>Monotropa uniflora</i> . |
| 304 | <i>Gymnocladus canadensis</i> , <i>adde Mich. arb. 2. p. 272. t. 23.</i> |
| 308 | <i>Podalyria mollis</i> , <i>adde v. s. in Herb. Lambert.</i> |
| 309 | <i>Virgilia lutea</i> , <i>adde Mich. arb. 3. p. 266. t. 3.</i> |
| 313 | <i>Tiarella cordifolia</i> , <i>adde Bot. mag. 1589.</i> |
| 327 | BARTONIA. Since writing the above article I had an opportunity of seeing both species there described in a living state; the first in the garden of A. B. Lambert, Esq. at Boyton, |

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where it flowered in very high perfection and formed seeds; the other at Messrs. Frasers', Sloane Square. From the latter I have taken the following description.

Bartonia nuda.—*Caulis* ramosus, angulatus, glanduloso-pubescent. *Folia* oblonga, sessilia, basi attenuata, repando-dentata, utrinque scabra, viridia. *Inflorescentia* *B. ornatae*. *Flores* duplo minores, lutescentes, germine nudo, angusto. *Petala* 10. angusto-lanceolata. *Filamenta* exteriora longiora, plerumque castrata et petaloidea.

- 333 *Tigarea tridentata*, *adde* Icon. *Tab. 15.*
- 339 8 *ab infer. loco linearibus lege linearis*
- 1 *ab infer. adde* *Mespilus arborea*. *Mich. arb. 3.*
p. 68. t. 11.
- 340 *Pyrus coronaria*, *adde* *Malus coronaria*. *Mich. arb. 3. p. 65. t. 10.*
- 344 *Rosa blanda*. *Differentia specifica lege R. germinibus globosis pedunculisque hispidis, ramis aculeato-hispidissimis, foliolis &c.*
- 348 *Rubus spectabilis*, *adde* Icon. *Tab. 16.*
- 350 *Dalibarda fragaroides*, *adde* *Bot. mag. 1567.*

VOL. II.

- 362 *Tilia glabra*, *adde* *T. americana*, *Mich. arb. 3.*
p. 311. t. 1.
- 363 *Tilia pubescens*, *adde* *Mich. arb. 3. p. 317. t. 3.*
- 364 *Tilia heterophylla*, *adde* *T. alba*. *Mich. arb. 3. p. 315. t. 2.*
- 365 *Talinum teretifolium*, *adde* *Pluk. alm. t. 223.*
f. 2. secundum Herb. Sherard.
- 390 *Caltha flabellifolia*, *adde* Icon. *Tab. 17.*
- 404 *adde* **CASTILLEJA**. *Cal. tubulosus unilabiatus.*
Cor. bilabiata, labio inferiore trifido, glandulis duabus inter lacinias. *Caps. bilocularis.*
- 411 *Prunella pensylvanica*, *adde* Icon. *Mart. cent. t. 5.*
- 423 *Gerardia fruticosa*, *adde* Icon. *Tab. 18.*
- 424 *Gerardia quercifolia*, *adde* Icon. *Tab. 19.*
- 424 *Gerardia cassioides* *dele.* *Ejus loco vide Supplémentum sub nomine Seymeria.*
- 427 *Mimulus Lewisii*, *adde* Icon. *Tab. 20.*
- 428 *Pentstemon laevigata*, *adde* *Bot. mag. 1425.*
- 428 *Pentstemon pubescens*, *adde* *Bot. mag. 1424.*

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| 441 | 13 <i>loco glabrum lege glabra.</i>
<i>Hopea tinctoria</i> , <i>adde Mich. arb.</i> 3. p. 61. t. 9. |
| 451 | <i>Gordonia Lessianthus</i> , <i>adde Mich. arb.</i> 3. p. 131.
t. 1.
<i>Gordonia pubescens</i> , <i>adde Mich. arb.</i> 3. p. 135.
t. 2. |
| 460 | <i>inter 591 et 592</i> , <i>adde CYTISUS</i> . <i>Cal.</i> bilabiatus :
labio superiore bidentato. <i>Carina</i> erecta.
<i>Legum.</i> basi attenuatum, 1-loculare, compres-
sum. <i>Stam.</i> monodelpha.
<i>inter 587 et 588</i> , <i>adde ERVUM</i> . <i>Cal.</i> 5-dentatus,
dentibus subulatis. <i>Sigma</i> simplex, incur-
vum. <i>Legum.</i> compressum, oligospermum.
<i>Stam.</i> diadelpha. |
| 465 | <i>Polygala Seneca</i> , <i>adde var. v. tenuifolia</i> —foliis
linearibus, spicis confertioria.
On the Missouri. <i>Lewis and Bradbury</i> . v. s. |
| 468 | <i>Lupinus villosus</i> , <i>adde Icon.</i> Tab. 21. |
| 471 | <i>Vicia americana</i> , <i>adde v. s. in Herb. Bradbury</i> .
var. foliis linearibus. |
| 475 | <i>Pisotaea esculenta</i> , <i>adde Icon.</i> Tab. 22. |
| 479 | <i>Lupinaster macrocephalus</i> , <i>adde Icon.</i> Tab. 23. |
| 480 | <i>Glycyrrhiza lepidota</i> , <i>loco sericeo-villosis</i> <i>lege</i>
utrinque lepidotis. |
| 487 | <i>Robinia Pseudacacia</i> , <i>adde Mich. arb.</i> 3. p. 245.
t. 1. |
| 488 | <i>Robinia viscosa</i> , <i>adde Mich. arb.</i> 3. p. 262. t. 2. |
| 499 | <i>Prenanthes Serpentaria</i> , <i>adde Icon.</i> Tab. 24. |
| 507 | <i>Liatris macrostachya</i> , <i>adde Bot. mag.</i> 1411. |
| 529 | <i>Senecio pauperculus</i> , <i>adde v. s. in Herb. Brad-
bury</i> . |
| 559 | 3 <i>loco s. 4. lege vol. 5.</i> |
| 564 | <i>Amellus villosus</i> , <i>adde Sideranthus integrifolius</i> .
<i>Fraser. catal.</i> 1813. v. s. in <i>Herb. Bradbury</i> .
<i>Amellus spinulosus</i> , <i>adde Sideranthus pinnatifidus</i> .
<i>Fraser. catal.</i> 1813. v. s. in <i>Herb. Bradbury</i> . |
| 571 | 7 <i>loco acutis lege acuminateis.</i> |
| 572 | <i>Galardia bicolor</i> , <i>adde G. bicolor</i> ; caule ram-
oso, foliis caulinis lanceolatis subdentatis, ra-
dicalibus dentato-pinnatifidis, paleis pappi
integerrimis aristatis. <i>Sims in Bot. mag.</i> 1602.
<i>Virgilia grandiflora</i> . <i>Fraser. catal.</i> 1813.
This elegant plant, which has been proved to be
a perennial, though it was always considered |

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- an annual, is very variable in its size, colour, and number of florets in the ray. Native specimens collected by Mr. Bradbury are covered with rigid hairs, and have but one flower. Cultivated plants raised from seeds of the same species are more smooth, branch more or less; the leaves are deeper divided, and produce several flowers double the size.
- 575 *Rudbeckia columnaris*, *adde R. columnaris*; foliis pinnatifidis: foliolis lanceolatis, exterioribus ordinatim majoribus, receptaculo cylindraceo elongato. *Sims in Bot. mag.* 1601. This species is not above a foot high, and appears to be annual.
- 580 *Iva ciliata*, *adde Iva annua*. *Mich. fl. amer.* 2. p. 184.
- 585 *Orchis ciliaris*, *adde Habenaria ciliaris*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 194.
- 587 *Orchis cristata*, *adde Habenaria cristata*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 194.
- 588 *Orchis viridis*, *adde Habenaria viridis*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 192.
- 589 *Orchis bracteata*, *adde Habenaria bracteata*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 192.
- 590 *Orchis hyperborea*, *adde Habenaria hyperborea*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 193.
- 592 *Orchis fimbriata*, *adde Habenaria fimbriata*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 193.
- 594 *Neottia cernua*, *adde Bot. mag.* 1568.
- 595 *Neottia repens*, *adde Goodyera repens*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 198.
- 596 *Neottia pubescens*, *adde Goodyera pubescens*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 198.
- 597 *Arethusa divaricata*, *adde Pogonia divaricata*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 203.
- 598 *Cymbidium pulchellum*, *adde Calopogon pulchellus*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 204.
- 599 *Cymbidium verecundum*, *adde Bletia verecunda*. *Brown in Ait. kew. ed. 2. vol. 5.* p. 206. *Bot. mag.* 930.
- 600 *Cypripedium parviflorum*, *adde Bot. mag.* 911,
- 601 *Cypripedium arietinum*, *adde Bot. mag.* 1569

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